THE YEARBOOK OF THE UNIVERSITIES OF THE EMPIRE

1926

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PREFACE

THE *Yearbook* was first published in 1914. Before its advent the official University Calendars were the only authentic sources of information regarding the personnel, organization, regulations, and recent activities of universities. When British universities were few and university men took but little interest in the affairs of any except their own, the Calendars sufficed; but there are now 67, and each takes a growing interest in the others. The Calendars constitute a library of no mean dimensions—some 50,000 pages—and hardly anywhere except at the Universities Bureau are they all accessible. Much of their contents is of strictly local interest. In the *Yearbook* an attempt is made to extract from each of these bulky volumes such information as is likely to prove of interest to members of other Universities and Colleges, to Government Departments, Clubs, schoolmasters, and the public generally. It would be impossible to present a conspectus of this kind in a volume of manageable dimensions without resorting to the use of abbreviations and other devices for saving space. It is hoped that abbreviation has not been pressed beyond the limits of intelligibility.

In chapters introductory to the sections dealing with the Universities of Great Britain and Ireland, of Canada, of Australia, of South Africa, and of India, is collected such information regarding their history, regulations, and practice as they share in common. Each section comprises three parts:

(1) A directory of the officers and members of the staff of the University. Much trouble has been taken in preparing these directories to ascertain the sources of the various degrees held by teachers, since such information gives in a small space the educational history of their holders. If no name of a university follows a degree, it may be assumed that the degree was conferred by the university upon whose staff the teacher is serving.

With the exception of honours conferred by H.M. the King, titles other than degrees are omitted, unless they throw light upon the standing of their holders in the subjects which they profess. It is, for example, of interest to learn that a medical teacher of a university overseas holds diplomas of the Royal Colleges, whereas the addition of the letters M.R.C.S., L.R.C.P., to the name of a teacher in the

United Kingdom who is also M.D. cannot be said to convey information of importance.

(2) Under the heading "General Information," an account is given of the equipment in libraries, museums, laboratories, etc., of the university, the degrees, diplomas, and certificates which it confers, its composition fees, scholarships open to graduates, residential accommodation, extra-mural work, publications, etc.

(3) The accounts of the universities which hold good with modifications from one issue to another are followed by reports of events of outstanding interest which occurred during the past academic year. They include statistics of the numbers of students in attendance and degrees conferred. These annual reports will be of great importance to future historians of the universities. In the 1924 issue a comparison of student enrolments and degrees conferred in 1912–13 and 1922–23 was given.

Appendices may be classified as (*a*) Summaries of regulations for the diplomas of the Medical Colleges and other Associations and Institutions of the United Kingdom, and the conditions governing admission to various professions and careers for which university studies are a fitting preparation; (*b*) matriculation examinations; (*c*) admission of students from abroad into the universities of the United Kingdom; (*d*) lists of inter-university scholarships and fellowships, and grants for research; (*e*) lists of professional schools of the universities of the United Kingdom and the distribution of subjects in which these universities, severally, may be said to specialize; (*f*) list of centres of research outside the universities.

The Universities Bureau acknowledges gratefully the ungrudging help afforded by the official Registrars and other correspondents in the Universities. This help gives the book an authoritative character to which it could not otherwise pretend.

CONTENTS

PAGE

PREFACE v

THE UNIVERSITIES BUREAU xi, xii

GREAT BRITAIN AND IRELAND

INTRODUCTORY 1

CONGRESSES 12

DEGREES 13

OTHER QUALIFICATIONS 20

ENGLAND AND WALES—BIRMINGHAM; BRISTOL; CAMBRIDGE; DURHAM (including Durham Division, College of Medicine, and Armstrong College); LEEDS; LIVERPOOL; LONDON (including University and King's Colleges, Imperial College of Science and Technology, East London and Birkbeck Colleges, School of Economics and Political Science, Agricultural College, Wye, Day Training College, School of Oriental Studies, Women's Colleges, Theological Schools, Medical Schools, Institutions with Recognized Teachers); MANCHESTER; OXFORD; SHEFFIELD; WALES (including University Colleges of Wales, Aberystwyth—North Wales, Bangor—South Wales and Monmouthshire, Cardiff—Swansea) 23

UNIVERSITY COLLEGES, UNATTACHED—Univ. Coll. of the S.W. of England (Exeter), Nottingham, Reading, Southampton . . . 243

SCOTLAND—ABERDEEN; EDINBURGH; GLASGOW (including Royal Technical College); ST. ANDREWS (including Univ. Coll., Dundee) 257

IRELAND—BELFAST (The Queen's University); DUBLIN; IRELAND (National University, including University Colleges of Dublin, Cork, Galway); College of Science, Dublin . . 298

CANADA—ACADIA, Wolfville, Nova Scotia; ALBERTA, Edmonton; BISHOP'S COLLEGE, Lennoxville, Quebec; BRITISH COLUMBIA, Vancouver; DALHOUSIE, Halifax, Nova Scotia; KING'S COLLEGE,

CANADA (*contd.*)— PAGE

Windsor, Nova Scotia; LAVAL, Quebec; McGILL, Montreal; McMASTER, Toronto; MANITOBA, Winnipeg; MONTREAL; MOUNT ALLISON, Sackville, New Brunswick; NEW BRUNSWICK, Fredericton; OTTAWA; QUEEN'S, Kingston, Ontario; ST. FRANCIS XAVIER, Antigonish, Nova Scotia; SASKATCHEWAN, Saskatoon; TORONTO; TRINITY COLLEGE, Toronto; VICTORIA, Toronto; WESTERN ONTARIO, London 322

WEST INDIES IMPERIAL AGRICULTURAL COLLEGE, St. Augustine, Trinidad 417

AUSTRALIA — ADELAIDE, MELBOURNE; QUEENSLAND, Brisbane; SYDNEY; TASMANIA, Hobart; WESTERN AUSTRALIA, Perth . 419

NEW ZEALAND—UNIVERSITY OF NEW ZEALAND (including Univ. of Otago, Dunedin—Canterbury Coll., Christchurch—Auckland Univ. Coll.—Victoria Univ. Coll., Wellington) 453

SOUTH AFRICA—CAPE TOWN; SOUTH AFRICA, including Univ. Colleges at Bloemfontein, O.F.S. (Grey), Grahamstown, C.P. (Rhodes), Pietermaritzburg (Natal), Potchefstroom, Pretoria (Transvaal), and Wellington, C.P. (Huguenot); STELLENBOSCH, C.P.; WITWATERSRAND, Johannesburg, Transvaal 466

MAURITIUS—COLLEGE OF AGRICULTURE 496

MANDATED TERRITORY: PALESTINE—HEBREW UNIVERSITY . 497

MALTA—UNIVERSITY OF MALTA 498

INDIA — ALIGARH MUSLIM UNIVERSITY; ALLAHABAD; BENARES HINDU UNIVERSITY; BOMBAY; CALCUTTA; DACCA; DELHI; LUCKNOW; MADRAS; MYSORE; NAGPUR; OSMANIA UNIVERSITY, Hyderabad, Deccan; PANJAB, Lahore; PATNA; RANGOON; Indian Institute of Science, Bangalore 500

CEYLON—University College, Colombo 564

SINGAPORE—King Edward VII. College of Medicine . . . 566

HONG-KONG 568

APPENDICES

I. to XIX. Professions and careers for which university studies are a fitting preparation: conditions of entry or of qualification for professional diplomas or membership of professional institutions :—

I. His Majesty's Forces: Regular Commissions for university candidates. II. Accountants, Actuaries, and Auditors. III. Administration. IV.

PAGE

Agriculture. V Architecture. VI. Auctioneers and Estate Agents. VII. Bankers. VIII. Chemistry IX. Engineers (Civil, Electrical, Mechanical, Aeronautical, Automobile, Chemical, Gas, Marine, Naval Architects, Municipal and County, Structural). X. Law (Barristers—Council of Legal Education, Inns of Court; Solicitors—Law Society). XI. Medicine and Surgery, etc. Medical and Dental Qualifications and Registration of Students; Reciprocal Recognition; Post-graduation Medical Studies. Royal Colleges of Physicians and Surgeons—England, Scotland, and Ireland. Society of Apothecaries, London. Royal College of Veterinary Surgeons. Royal Sanitary Institute; Royal Institute of Public Health; Institute of Hygiene. XII. Mining and Metallurgy (including Mining Engineering; Metals; Petroleum). XIII. Patent Agents. XIV. Pharmaceutical Chemistry. XV. Physics. XVI. Secretaries. XVII. Surveyors. XVIII. Teaching. XIX. General 573

XX. LIST OF EXAMINATIONS 626

XXI. MATRICULATION EXAMINATIONS 627

XXII. OVERSEAS STUDENTS IN UNIVERSITIES OF GREAT BRITAIN AND IRELAND 634

XXIII. ADMISSION OF STUDENTS FROM ABROAD TO UNIVERSITIES OF GREAT BRITAIN AND IRELAND . 636

XXIV. INTER-UNIVERSITY SCHOLARSHIPS, GRANTS FOR RESEARCH, ETC. 642

XXV. UNIVERSITIES OF FOREIGN COUNTRIES . . 670

XXVI. PROFESSIONAL SCHOOLS OF THE UNIVERSITIES OF THE UNITED KINGDOM AND SUBJECTS OF SPECIALIZED STUDY IN THE UNIVERSITIES OF THE UNITED KINGDOM 686

XXVII. CENTRES OF RESEARCH OUTSIDE THE UNIVERSITIES 720

INDEX OF NAMES 729

INDEX OF COLLEGES, ETC. 784

GENERAL INDEX 790

THE UNIVERSITIES BUREAU OF THE EMPIRE

At the final, Delegates', meeting of the Congress of 1912 it was resolved that steps be taken for the formation in London of a Bureau of Information for the Universities of the Empire. From its inception until November 1919 the Bureau was, by the great courtesy of the Director, allowed the use of a room in the Imperial Institute. In the spring of 1919 the Government offered a non-recurrent grant of £5000 to enable the Committee to secure and furnish premises suitable for the wide activities which the Bureau had developed, on condition that the Universities of the Empire undertook to provide funds adequate to its maintenance. The Committee thereupon purchased the lease of No. 50 Russell Square. Offices in this building have been let to—

The British Division of the American University Union. *Director*—Robert Mark Wenley, D.Phil., D.Sc. *Assistant Director*—R. H. Simpson, M.A.

Office National des Universités et Écoles Françaises (removed to Cromwell Gardens, South Kensington, S.W.7).

The Anglo-Danish Bureau, established by the Danish Students' International Committee. *Director*—J. H. Helweg, Cand. Mag.

The Commonwealth Fund; Committee of Award (see page 659).

The Committee of the Universities Bureau desire to welcome members of any of the Universities of the King's Dominions overseas who may visit London, and to place the resources of the Bureau at their disposal. By calling at the Bureau or writing to the Secretary, visitors from overseas can obtain information regarding forthcoming lectures, conferences, etc., and by registering their names and addresses (whether by calling or by letter) they will enable the Bureau to offer them opportunities of getting into touch with one another.

COMMITTEE

(Appointed in accordance with a resolution of the Delegates to the Congress of the Universities of the Empire, at a Meeting in London on July 5, 1912)

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UNIVERSITIES OF GREAT BRITAIN AND IRELAND

HISTORICAL SUMMARY—ADMISSION AS AN UNDERGRADUATE—ADMISSION OF STUDENTS FROM ABROAD—NUMBER OF FULL-TIME STUDENTS—NATIONAL UNIONS OF STUDENTS—TERMS—FEES—SCHOLARSHIPS—LIBRARIES—UNIVERSITY GRANTS—REPRESENTATIVES IN PARLIAMENT—UNIVERSITY EXTENSION—CONFERENCES—STANDING COMMITTEE OF VICE-CHANCELLORS—INTERNATIONAL CONFERENCES—INTERCHANGE OF TEACHERS AND STUDENTS—CONGRESSES OF THE UNIVERSITIES OF THE EMPIRE—DEGREES.

UNIVERSITIES were the outcome of the great intellectual revival which affected Europe in the twelfth and thirteenth centuries. Shortly after the Schools of Bologna and Paris had developed into what we now term Universities, similar seats of learning arose at Oxford and Cambridge, the nucleus of organization being, as at Paris, a corporation of masters—not, as at Bologna, a corporation of students—and many of the students being boys of fourteen or even younger. Instruction was in the form of lectures by licensed teachers. To the Seven Liberal Arts of the mediæval schools (the "trivium"—GRAMMAR, LOGIC, and RHETORIC, and the "quadrivium"—ARITHMETIC, GEOMETRY, MUSIC, and ASTRONOMY) the Universities added the three higher "Faculties" of THEOLOGY, LAW, and MEDICINE in order to provide complete preparation for the learned professions. The Scottish Universities, except Edinburgh, were founded in the fifteenth century, but the country had not been greatly influenced by the Revival of Learning, and although the earliest Reformers were in touch with continental scholars, and some attempts were made to introduce the New Learning into the schools and universities, the mediæval scholastic tradition remained paramount in St. Andrews and Glasgow until the seventeenth century. Aberdeen was more receptive to *renaissance* influences. The University of Edinburgh originated in a College established by the Town Council in 1583. Trinity College, Dublin, was founded by Queen Elizabeth in 1591 on the lines of the Oxford and Cambridge colleges.

After the Reformation a demand arose in England for education of a more secular type, but the Acts of Uniformity (1559 and 1662) and similar measures stereotyped the schools and universities as clerical and theological institutions, and by the latter half of the eighteenth

century the teaching in the Universities had become mainly traditional and formal, and they were rapidly losing their hold on the national life.

Readjustment to modern conditions took place in the course of the nineteenth century Already in 1779 Protestant Dissenters, and in 1791 Roman Catholics, had been emancipated from the ban against their following the teaching profession, and the few Denominational tests retained by the older Universities until 1871 were then abolished. Oxford in 1800 established a system of written examinations for the bachelorship, and Cambridge in 1824 the classical Tripos. Soon afterwards both Universities instituted non-classical Honour examinations. The University Commissioners of 1850 and 1877 made provision at Oxford and Cambridge for the endowment of the teaching of modern subjects, and the throwing open of scholarships to students of such subjects removed practically all obligations to take orders in the Church of England, and did much to make the Universities accessible to all classes of the community.

Meanwhile the foundation in 1828 on a strictly undenominational basis of what has now become University College, London, provided a teaching institution of University rank free from all restriction of tests. The University of Durham obtained its charter in 1837. In its original conception it followed closely the lines of Oxford. It was partly endowed out of the funds of the See and Chapter of Durham. The Colleges in which the other English Universities originated were founded as follows: Owens College, Manchester, 1851; Yorkshire College, Leeds, 1874; University College, Bristol, 1876; Firth College, Sheffield, 1879; Mason College, Birmingham, 1880; University College, Liverpool, 1881. Created to minister to local needs and supported largely by local benefactions, they were naturally closely associated with local industries and from the first laid stress upon the study of mathematical, scientific, and modern subjects. The Royal College of Science and the Royal School of Mines originated in a Technical School formed in 1851 in connexion with a Museum of Practical Geology. They, together with the City and Guilds (Engineering) College, founded in 1881, became integral parts of the Imperial College of Science and Technology which was established in 1907 with the declared purpose of giving the highest specialized instruction and providing for research in the various branches of science, especially in its applications to industry. A University of Wales was projected early in the fifteenth century and the project was revived in Cromwell's time, but it did not materialize until 1893. The constituent colleges at Aberystwyth, Cardiff, Bangor, and Swansea were founded in 1872, 1883, 1884, and 1920 respectively. They are thoroughly indigenous to the Principality, much of the funds having been collected in very small sums from workpeople at the doors of churches and chapels. The two modern Irish Universities both date from 1909. In 1850 a Royal Charter was granted to the then recently established Queen's Colleges of Belfast, Cork, and Galway, constituting them a Federal University which was absorbed in 1880 in the Royal University. University College, Dublin, representing the Catholic University established by the Irish

Bishops in 1854, became with the Cork and Galway Colleges in 1909 constituents of the National University of Ireland, while Queen's College, Belfast, became the Queen's University of Belfast.

WOMEN were first admitted to Degrees by the University of London in 1878. Bedford College had already been founded in 1849; the three other colleges for women in connexion with the University of London were founded, Westfield in 1882, Holloway in 1886, and King's in 1902. Of the Cambridge colleges Girton originated at Hitchin in 1869, and was removed to the near neighbourhood of Cambridge in 1873; Newnham was founded in 1880. The colleges at Oxford were opened, Lady Margaret in 1878, Somerville in 1879, St. Hugh's in 1886, and St. Hilda's in 1893. Cambridge admitted women informally to Tripos examinations in 1872 and adopted, October 1921, a proposal that it should take power to confer on them by diploma Titles of Degrees. Oxford admitted them to examinations in 1884 and to degrees and full membership in 1920. Women have been admitted to the Universities of Scotland since 1892, Durham since 1896, Dublin since 1904, and to all the modern Universities from their foundation.

Unlike those of most other countries, the Univs. of the United Kingdom have been, since their origin, independent of State control. Another distinguishing characteristic of British Univs., as compared with those of the Continent of Europe, has from the earliest days been the provision of halls of residence, or COLLEGES, in which students live as members of a community, with the privileges of social intercourse and subject to the mutual influence which corporate life exerts.

ADMISSION AS AN UNDERGRADUATE. Before inserting a student's name *in matricula* all Univs. exact evidence that the applicant's intellectual equipment fits him to undertake a course of study for a degree.

Matriculation examinations covering the usual subjects of education in a secondary school are held by the Univs. of Durham, London, Wales, Belfast, Dublin, Ireland (N.U.I.), and the Joint Board of Manchester, Liverpool, Leeds, Sheffield, and Birmingham. Analogous examns. are held by Oxford (" Responsions "), Cambridge (" Previous Examn."), and the Scottish Univs. Entrance Board (" Preliminary Examn."), and these must be passed (or exemption on the ground of having passed equivalent examns. must be obtained) by all students proceeding to degrees, though not necessarily before entering upon courses of study in the Univs. Many of the Oxford and Cambridge Colleges make the passing of Responsions or the Previous or equivalent examns. a condition of admission to the College. Bristol has discontinued its matricn. examn. as superfluous in view of the institution of the School Certificate and Higher Certif. examns. (v. *infra*), and the admission to them of candidates not presented by schools. Durham has followed Bristol's example so far as the Colleges at Newcastle are concerned. For details of regulations, see Appendix XXI.

A Matriculation Examination for persons of mature years has been instituted by the above-mentioned Joint Board (v. App. XXI.), and

by Belfast. Armstrong College has a special examn. for candidates proposing to read for a degree in Applied Science who have been engaged in technical pursuits for 2 years. See also p. 106.

School Examinations.—England and Wales. A scheme originated by the Board of Education in consultation with all the Univs. of England for co-ordinating Secondary School examns. came into operation in England in 1918 and in Wales in 1920. Under this scheme the following are recognized by the Board as approved—

I. As "First Examinations," suitable for pupils about the age of 16, the standard being such that a Pass with Credit in a certain number of subjects in the three main groups of School subjects (English subjects, Foreign Languages, Mathematics and Science) would entitle a candidate to admission to a Univ.:—

"School Certificate" examns. of the Oxford and Cambridge Schools Examn. Board, of the Oxford Delegacy of Local Examns. and the Cambridge Local Examns. Syndicate (formerly known as "Senior Local" examns.), of the Univs. of Bristol and Durham, and of the Northern (Birm., Leeds, Liv., Manc., Sheff.) Univs. Joint Matricn. Board; "The General School" examn. of London; and the School Certificate examn. of the Central Welsh Board.

In addition to the three groups of subjects above mentioned, First Examinations include a fourth group of optional subjects, such as Music, Drawing, Manual Work, Needlework, Housecraft. Excellence in these subjects will not exempt a candidate from the necessity of reaching a minimum standard in each of the other groups.

II. As "Second Examinations," suitable for pupils about 2 years older, framed on the assumption that the candidate has, after the stage marked by the first examn., followed a more specialized course:—The "Higher Certificate" examns. of the Oxford and Cambridge Schools Examns. Board, Bristol, Durham, the Northern Univs. Joint Board, London, Oxford (Delegacy for Local Examns.), Cambridge (Syndicate for Local Examns.), and the Central Welsh Board.

With a view to securing equality of standard and the acceptance of the certificates by Univs. and Professional Bodies, the Board of Education exercises a co-ordinating authority with the help of a "Secondary School Examinations Council" composed of 23 representatives of the Examining Bodies, County Councils Assocn., Assocn. of Municipal Corporations, Assocn. of Education Committees, and Teachers' Registration Council. The Examinations Council keep in close touch with the Examining Bodies and conduct a regular scrutiny of their statistics, regulations, and syllabuses. In addition a detailed investigation of the methods and standards of award is held from time to time. Provision is made for ensuring that teachers in the Schools are brought into touch with the Examining Bodies (supplied in all cases by the Univs.); that a School is examined, if it so desires, on its own syllabus, unless the Examining Body considers it inadequate; and that estimates of the merits of their candidates in each of the subjects offered by them if submitted by Head Masters and Head Mistresses are taken into account in the award of certificates.

Schools are not required as a condition of recognition for grants to take these examns., but Schools on the grant list entering pupils for them under conditions approved by the Board receive an additional grant in respect of the examn. fees of each pupil so entered. The entrance of pupils attending grant-earning secondary schools for any examination below the stage of a First Examn. is closely restricted.

Among the functions of the Secondary School Examns. Council is negotiation with Univs. and Professional Bodies for the acceptance of the examn. certificates as exempting the holders from certain other examns. They are now accepted, subject to various qualifications, by all English Univs. and by a number of professional bodies (v. Appendices), as exempting from entrance examns. The "Second Examinations" are also recognized by many Univs. for exemption from Intermediate Exams. and for admission to Honours courses, etc.

Wales. The School Certificate of the Central Welsh Board showing a pass with credit at one and the same examn. in all the required subjects of the matricn. examn. is accepted by the Univ. for matricn.; so, also, are certifs. of the other First Examns. (except Durham's), the Scotch Educn. Dept.'s Leaving Certif. (Higher Grade), and the Intermediate Examn. (Senior Grade) of the Ministry of Educn. for Northern Ireland.

Scotland. On December 31, 1918, there came into operation Ordinance No. 70 (General No. 3) of the University Courts of the four Scottish Univs. as to Admission for purposes of graduation. This defines the normal test of fitness as "the production of evidence duly attested by a competent authority of the satisfactory completion of a suitable course of secondary education," and sets up an Entrance Board to regulate the application of this principle. This Board, which has superseded the Joint Board of Examiners for the Scottish Univs., has provided by "General Regulations" for the recognition of Group Certifs. of the Scotch Education Dept. and, in the case of Schools in Scotland not regularly presenting candidates for these certifs., other evidence of completion of suitable courses. It has similarly provided for the recognition of Leaving or other certifs., in the case of applicants from outside Scotland. The admission of applicants who, owing to exceptional circumstances, have not been able to fulfil the normal conditions is provided for by "Special" Regns. The Entrance Board's Regns. take effect as from Feb. 1, 1927. In the meanwhile, the Preliminary Examn. Regns. of the Joint Board are continued (vide p. 258).

Ireland. The Senior Grade examn. of the Intermediate Education Board of Ireland is accepted, subject for subject, in lieu of the matricn. examns. of Dublin, Nat. Univ. of Ireland, and (subject to special conditions in respect of Maths.) Belfast. Belfast and the N.U.I. also accept, subject for subject, the Scottish Leaving Certif. (Higher or Hons.), the Higher Certif. of the Ox. and Camb. Schools Examn. Board, and (Belfast only) the Bristol School Certif. For admission to the Univ. of Dublin the Senior Lecturer is now allowed to recognize examns. as "equivalent" to the Senior Grade Intermediate, and does so recognize the Scottish Leaving Certificate and others. In 1925 the

new Leaving Certificate for Secondary Schools was recognized by the N.U.I. as exempting from the matricn. examn. in the same manner as the Senior Grade Intermediate examn.

ADMISSION OF STUDENTS FROM THE KING'S DOMINIONS OVERSEAS AND FROM FOREIGN COUNTRIES. Certificates which would qualify for admission to Univs. outside the United Kingdom are accepted as satisfying, in whole or in part, the matricn. requirements of the Univs. of the United Kingdom. Intending students should apply for information to the Registrar of the Univ. in which they desire to be matriculated. A summary of existing regulations is given in Appendix XXIII.

The NUMBER OF FULL-TIME STUDENTS in Universities and University Colleges in receipt of Treasury Grant is given in the Returns published by the University Grants Committee for the year 1923 24 as 42,892, including 12,940 women. The returns do not include the students of the Irish Universities, Guy's Hospital Medical School, and some other schools of the University of London. If the figures for these institutions are added a total of 49,300 is obtained. The total may be distributed as follows : Oxford and Cambridge (including 1200 women), 9100 ; London, 10,800 ; Midlands and North of England (Birmingham, Leeds, Liverpool, Manchester, Sheffield, Durham, and Nottingham), 9550 ; West and South of England (Bristol, Exeter, Southampton, Reading), 2100 ; Wales, 2650 ; Scotland, 10,450 ; Ireland, 4650. The Grants Committee classify the 42,892 full-time students included in their tables : Medicine, including Dentistry, 10,864, of whom 1998 were women ; Arts, Theology, Law, Music, Commerce, Economics, and Education, 18,981 (8588 women) ; Pure Science, 7402 (2199 women) ; Engineering, Applied Chemistry, Agriculture, etc., 5645 (155 women). The above statistics do not include the students of the institutions other than Universities and University Colleges in which professional education of university grade is given in Theology, Teaching, Agriculture, Mining, etc. ; nor students reading privately for the external degrees of the University of London, for the Bar, etc. Another consideration which makes difficult comparison with statistics of other countries is that the work of the higher forms of many of our secondary and " public " schools corresponds with the earlier stages of the work done in Colleges and collegiate departments of Universities elsewhere, *e.g.* in America.

A NATIONAL UNION OF STUDENTS of the Univs. and Univ. Colleges of England and Wales was formed in Feb. 1922 " to represent the students of this country nationally and internationally," and to promote their educational and social interests in entire independence of all political or religious propaganda. It is a federation of Unions, Guilds, and Student Representative Councils. It is affiliated to the *Confédération Internationale des Étudiants* (see Appendix XXV.), through which it has taken an active part in promoting foreign travel of English students and stimulating intercourse with students abroad. In July 1924 a conference of Dominion student representatives was held

at London and Cambridge to discuss ways and means of practical co-operation between students of the Empire, together with general Imperial problems. *Publication*—"The University," once a term, 6d. *Address*—3 Endsleigh Street, London, W.C.1.

NATIONAL UNION OF STUDENTS OF SCOTLAND. Each Students' Representative Council appoints an International Academic Committee. The four Committees form the Executive Committee of the N.U.S., under the presidency of the President of the S.R.C. Conference. The N.U.S., which is affiliated to the *Confédération Internationale des Étudiants*, charges itself with the collection and distribution of information concerning student activities, literature, and travel within Scotland and abroad. Its office is, S.R.C. Office, The Univ., Edinburgh.

The IRISH STUDENTS' NATIONAL UNION, founded in 1924, is composed of the following student organizations: College Historical Society, University Philosophical Society, and Elizabethan Society (all of Trinity College, Dublin), and the Students' Representative Councils of Queen's Univ., Belfast, and of the Univ. Colleges of Dublin, Cork, and Galway (National Univ. of Ireland). Secretaries: F. G. O. Budd, Trinity College, Dublin, and J. Mowbray, Univ. College, Dublin.

TERMS. The academic year is divided into three terms, which run from about Oct. 1 to the middle of Dec.; middle of Jan. to end of March; middle of April to end of first week in July.

FEES are charged by all Universities. They vary somewhat in the different Univs., but are, on the average, for Arts £30, for Science £36, for Engineering or for Medicine £30 to £60 per annum in English Univs. In Scottish, Welsh, and Irish Univs. the fees are lower.

SCHOLARSHIPS. "The English Scholarship System is a medley," wrote Lord Haldane in a foreword to a report on the subject published in July 1924 by the Sir Richard Stapley Educational Trust, "of things very old and very new, national and local, rational, and sometimes, perhaps, the reverse." The number of scholarships is so large, and the conditions for their award and tenure are so varied that it is impossible in this book to give any adequate account of them. In the "General Information" regarding each university will be found, however, a brief notice of scholarships open to graduates. Reference may also be made to the Scholarships paragraph of The Scottish Universities chapter, and to Appendix XXIV. Entrance Scholarships are awarded not only by universities and colleges, by schools administering School-leaving exhibitions, and by the trustees of unattached endowments, but also by Local Education Authorities and by the Board of Education. The expenditure of Local Education Authorities in England and Wales in 1922–23 on Scholarships to universities and institutions of university rank amounted to £220,000. It was with special reference to these awards that the above-mentioned report (obtainable at the Trust's offices, 33 Bloomsbury Square, W.C.1., price 2s. 6d.) was prepared. The Board of Education, which has for many years awarded the Whitworth and other Science scholarships,

administers the system of State Scholarships introduced in 1920 for boys and girls in full-time attendance at grant-aided secondary schools who reach in "Second Examinations" (vide p. 4) such a standard as gives reasonable expectation that they are capable of following successfully a course of study for a university degree in honours, and need assistance to enable them to do so. The scholarships, which carry with them grants in aid of the fee payable for the proposed course and maintenance grants not exceeding £80 p.a., are ordinarily tenable for 3 years which may be extended to 4. The number of such scholarships for which provision was made in 1925 was 200. A review of the whole subject of scholarships is to be found in a report of the Consultative Committee of the Board of Education published in 1916 (Cd. 8291). The Board held a conference in January 1925 to provide for the co-ordination of grants from all sources for Oxford and Cambridge scholarship candidates, and a report was issued in November.

LIBRARIES. In each of the sections relating to the universities severally will be found a brief note on this subject. A University Library Co-operation Inquiry Office has been established by the Association of University Teachers with the help of a grant from the Carnegie United Kingdom Trustees. It will endeavour to discover for research workers in what library, if any, any publication or MS. is available, and whether it can be lent. Address: L. T. Oldaker, Esq., The University, Edmund Street, Birmingham. Any inquiry should be accompanied by a list of the libraries which the inquirer has already tried in vain. In this connexion attention may be drawn to the Association of Special Libraries and Information Bureaux, 38 Bloomsbury Sq., W.C.1, which was established, also with the help of a grant from the same source, in 1925.

PARLIAMENTARY GRANTS TO UNIVS. AND UNIV. COLLEGES. Prior to 1889 the English Univs. and Univ. Colls. were dependent for their incomes upon endowments, subscriptions and students' fees. In that year a Treasury Grant of £15,000 p.a. was made to the English Univ. Colls. and the College at Dundee. At the same date each of the three Welsh Univ. Colls. was receiving £4000 p.a., and the Scotch Univs. a statutable Grant of £42,000, to which was added in 1892 under the Education and Local Taxation Account (Scotland) Act an annual Subsidy of £30,000. Between 1826 and 1895 sums amounting to £380,000 were contributed by Government towards the cost of enlarging the buildings of the Scottish Univs. In Ireland the Queen's Colleges of Belfast, Cork, and Galway were established in 1845, the three buildings costing a total of £100,000. Each College received a Government Grant of £7000 p.a. The Queen's Univ. was established in 1850, as an examining body. Its annual Subsidy, varying with the estimates, never exceeded £5000. In 1879 the Queen's Univ. was replaced by the Royal Univ., also an examining body, but differing from the Queen's Univ. in that students other than those of the Queen's Colls. were admitted to its examns. It also gave fellowships, scholarships, and prizes Until 1883, when, in accordance with the Act of Parliament by which it was established, it obtained its income of £20,000 p.a. out

of funds released by the disestablishment of the Church of Ireland, its expenses were met in the same way as in the case of the Queen's Univ.

In 1896 two Commissioners were appointed by the Treasury to inspect the equipment and report upon the work of the 12 Univ. Colls. in England and at Dundee participating in the Grant (£15,000 p.a.) of 1889 and 2 which were claimants for Grants. In recognition of their increased activities and of additional support received from rates and private benefactions the total Grant was increased to £25,000 p.a. In their Report on the Univ. of Birmingham (into which the Mason College had been transformed in 1900), the 11 other Univ. Colls. to which Grants had been assigned, and 3 claimants the two Commissioners appointed in 1901 submitted evidence of growth qualifying for increased financial aid; but owing to the South African War no action, with the exception of the addition of the Univ. Colls. of Reading and Southampton to the list, each receiving £1000, was taken by the Treasury until 1905, when the total Grant was increased to £100,000. In Jan. 1906 a Permanent Committee was appointed by the Treasury "to advise the Department as to the distribution of the Grant in aid of Colleges furnishing Education of a Univ. Standard." The Committee forthwith proceeded to appoint two inspectors to report upon the 14 Univs. and Univ. Colls. receiving Grants and 3 claimants. By this time, in addition to Birmingham, Leeds, Liverpool, Manchester and Sheffield possessed Univs., to each of which £2000 p.a. had been granted towards the cost of examns. and the giving of degrees. The Univ. of London also received £8000 p.a.

In 1909–10 the Grant to the English Univs. and Univ. Colls. and to Dundee was raised to £150,000. In 1907 a Treasury Committee was appointed "to inquire and report upon the University of Wales and its constituent Colleges." (The present Secretary to the Bureau was one of the two Commissioners in 1901 and again in 1906 and a member of this Committee.) Following the issue of the Committee's Report in 1909 the Grant to the 3 Welsh Colleges was increased to £25,000. In 1919 the Advisory Committee was dissolved and the Univ. Grants Committee appointed "to inquire into the financial needs of Univ. Education in the United Kingdom and to advise the Government as to the application of any Grants that may be made by Parliament towards meeting them." The total Grant was increased to £1,000,000. Including Emergency Grants to Cambridge, Oxford, and Trinity College, Dublin, the sums assigned in 1920–21 were: Annual Grants £909,240 (including Ireland £111,000), Non-recurrent Grants £304,000 (including Ireland £67,000). The total Grant for 1921–22 was £1,500,000, and in addition a sum of £500,000 was provided to assist the Institutions to provide retrospective superannuation benefit for their staffs; the grant for 1922–23 for Great Britain only was £1,169,000, which was also the amount of the grant for 1923–24. The grant for 1924–25 was £1,242,570 and for 1925–26, £1,550,000.

REPRESENTATIVES IN PARLIAMENT. Oxford (2), Cambridge (2), London, Wales, Scottish (3), Dublin, National of Ireland, Belfast—v. the sections relating to these Univs.

Birmingham, Bristol, Durham, Leeds, Liverpool, Manchester, Sheffield—Rt. Hon. H. A. L. FISHER, M.A.; Sir MARTIN CONWAY, M.A.

UNIVERSITY EXTENSION. The system of university extension lectures and classes initiated in Cambridge in 1873 is described in the Cambridge section (p. 62). Brief notes on their extra-mural work are given also in "General Information" paragraphs and annual summaries for other universities. An account of organizations concerned with adult education and a bibliographical note are contained in *The Way Out*, a volume of essays by members of the British Institute of Adult Education (13 John St., Adelphi, W.C.2), published by the Oxford Univ. Press, 1923. To the bibliography should now be added: University Extension, 1873–1923, by W. H. Draper, Cambridge Univ. Press, 3s. 6d.; Report of Jubilee Celebrations of the Cambridge Local Lectures, July 1923; British Music, Paper 5 of the Adult Education Committee of the Board of Education, H.M. Stationery Office, 6d. An interesting new departure in 1924 was undertaken by the L. and N.E. Railway Company which made arrangements for the provision of Courses of Lectures in Railway subjects (Economics, Operating and Commercial, Law and Geography) for members of the clerical staff of the Company. Under this Scheme lectures are provided by the Univs. of Cambridge, Leeds, Manchester, and Sheffield, the London School of Economics, Armstrong College, Newcastle-on-Tyne, and Univ. College, Nottingham; and in Scotland by the Univs. of Aberdeen, Edinburgh, Glasgow, and St. Andrews. A fee of 5s. per subject is payable by the student, and prizes of from one to five guineas for each subject are given to all who reach certain prescribed standards. In 1924 over 6500 students were enrolled.

CONFERENCES. In May 1917 representatives of the Universities and University Colleges met in Conference to devise measures for the further encouragement of Post-graduate Study and Research. It was resolved that it was desirable that a degree should be instituted carrying the title of Doctor, obtainable by graduates of British and foreign Univs. after a course of advanced study and research. The conditions and regulations for such a degree were further considered at adjourned meetings held on May 10, 1918, Jan. 24, 1919, and March 14, 1919. The resulting legislation is summarized on p. 17. Interchange of Teachers and Students, the Tenure of University Offices, Superannuation and Provision of Pensions, and other matters have been considered by Conferences specially convened at various times.

In May 1918 Mr. Balfour summoned at the Foreign Office a Conference of representatives of all the Universities for the purpose of putting before them a proposal that on the invitation of the Govt. of the U.S. a Universities' Mission should be sent to America. At this meeting Mr. Balfour took the opportunity of pressing upon the Univs. the desirability of establishing a representative body to which matters of interest to the Univs. might be referred by Govt. Departments. He urged the necessity of the creation of "an organ of expression" which would voice the desires and aspirations of the British Univs. and

represent them in their relations with the Univs. of other nations. At a subsequent meeting Conference resolved that "it is desirable in the interests of the Univs. and of the nation that steps be taken to promote co-operation and mutual consultation among the Univs. of Great Britain and Ireland, and, further, that the Vice-Chancellor or Principal of each Univ. or a deputy appointed by him, together with the Executive Committee of the Universities' Bureau, be appointed a STANDING COMMITTEE to consider any matters of common interest arising out of the proceedings of this Conference or submitted to it by the Govt. and to report from time to time to the Conference."

The Standing Committee of Vice-Chancellors has dealt with such matters as the presentation of the case for Increased Grants to Univs. and Univ. Colleges, leading to the Deputation to the Chancellor of the Exchequer which was received in Nov. 1918, and to a similar deputation received in 1924; the relations of the Univs. and Univ. Colleges to national schemes for the Promotion of Research; the question of controlling the number of students in professional and other subjects; the Recognition of the Special Army Education Certif., as qualifying for matriculation; Fees for Courses of Undergraduate and for Post-graduation Study and the possibility of adopting a uniform scale in each of the several Faculties of all Univs. of the U.K.; the relations of the Univs. to Training Colleges for Teachers; qualification for admission to courses leading to the Ph.D. degree; recognition of foreign school-leaving certificates as qualifying for matriculation; salaries of members of staff; recognition of records of students from Australia, Canada, S. Africa, and India; specialization in certain subjects of study by certain Universities*; the mutual recognition of Matriculation examns. and Degree courses of study; Income-tax on funds invested for provision of pensions, Inhabited House Duty on hostels and other legal liabilities of Universities; the replenishing of the libraries of the Univs. of Louvain, Nancy, Tokio.

At the ANNUAL CONFERENCE of the Univs. of Great Britain and Ireland held on May 9, 1925, the subjects discussed were: (1) the function of the universities in relation to Agriculture; (2) Physical Training and Medical Supervision of University students; (3) relations of universities to foreign National Institutes established in Great Britain and similar British Institutes abroad. A report of the proceedings was printed. Copies are obtainable from the Universities Bureau, 50 Russell Square, price 1s.

INTERNATIONAL CONFERENCES. Following the Mission to America already referred to, the British Univs. in May 1919 accepted an invitation to appoint a delegation to visit the Univs. of France as guests of the French Republic. In the autumn of 1919 a similar invitation was accepted from the Belgian Govt. In July 1920, 17 Professors of English, and in July 1921, 32 Professors of History, from many parts of the U.S.A. and the British Dominions overseas, met their colleagues of the Universities of the U.K. in conference at the invitation of the University of London to discuss methods of research and teaching and

* Vide Appendix XXVI.

to elaborate plans of co-operation. The Conference of 1921 synchronized with the opening of the University of London Institute of Historical Research. A Conference of British and Swiss Universities was held at Bâle in 1922. By invitation of Columbia University a Conference of British and American teachers of English was held in New York in June 1923, and an Anglo-American Conference of Professors of History took place at Washington and Richmond (Virginia), Dec. 27-30, 1924.

INTERCHANGE OF TEACHERS AND STUDENTS between the Univs. of the King's Dominions overseas and of foreign countries and the Univs. of the U.K. In May 1919 a Committee was established for the purpose of promoting interchange. This Committee was discharged in March 1922 and replaced by another consisting of the Interchange Correspondents of the Bureau in the various Univs. See, in this connexion, Appendices XXII., XXIII., and XXIV.

CONGRESSES OF THE UNIVERSITIES OF THE EMPIRE

The FIRST CONGRESS of the Univs. of the Empire was held in London on July 2 to 5, 1912. All the Universities of the Empire were represented. Subjects discussed: "Specialization among Universities," and "Inter-University Arrangements for Post-graduation and Research Students," Chairman, the Earl of Rosebery and Midlothian, Chancellor of the Univs. of London and Glasgow, and Lord Rector of the Univ. of St. Andrews; "The Relation of Universities to Technical and Professional Education and to Education for the Public Services," and "Interchange of University Teachers," Chairman, the Earl Curzon of Kedleston, Chancellor of the Univ. of Oxford; "The Problem of Universities in the East in regard to their Influence on Character and Moral Ideals," and "Residential Facilities," Chairman, Mr. A. J. Balfour, Chancellor of the Univ. of Edinburgh; "Conditions of Entrance to Universities, Equivalence and Mutual Recognition of Entrance Tests," and "Action of Universities in Relation to the After-careers of their Students," Chairman, Lord Rayleigh, Chancellor of the Univ. of Cambridge; "Courses of Study and Examinations for other than Degree Students, University Extension and Tutorial Class Work," Chairman, Lord Kenyon, Senior Deputy Chancellor of the Univ. of Wales; "The Establishment of a Central Bureau, its Constitution and Functions," "The Position of Women in Universities," and "Representation of Teachers and Graduates on the Governing Body of a University," Chairman, Lord Strathcona and Mount Royal, Chancellor of the Univs. of Aberdeen and McGill.

The SECOND CONGRESS of the Univs. of the Empire met in Oxford on July 5 to 8, 1921. All members received, and upwards of 300 accepted, offers of hospitality, either from a College or from a resident member of the Univ., for the four days during which Congress was to sit. Including members of the Univ. of Oxford, who attended without enrolment, and those who returned to London and other places for the night, the attendance numbered about 550. The 18 Home Univs. and 36 of the Univs. overseas were represented, the visitors from overseas numbering 100. Subjects discussed: "The Universities and

the Balance of Studies," Chairman, the Marquess Curzon of Kedleston, Chancellor of the Univ. of Oxford; "The Universities and the Teaching of Civics, Politics, and Social Economics," and "The Universities and Secondary Education," Chairman, Mr. A. J. Balfour, Chancellor of the Univ. of Cambridge and of the Univ. of Edinburgh; "The Universities and Adult Education," Chairman, Viscount Haldane, Chancellor of the University of Bristol, "The Universities and Technological Education," Chairman, the Marquess of Crewe, Chancellor of the Univ. of Sheffield; "The Universities and Training for Commerce, Industry, and Administration," and "The Universities and the Training of School Teachers," Chairman, Dr. J. C. Irvine, Principal, in the place of the late Lord Balfour of Burleigh, Chancellor of the Univ. of St. Andrews; "University Finance," Chairman, Sir Robert Stout, Chancellor of the Univ. of New Zealand; "The Universities and Research," Chairman, Lord Robert Cecil, Chancellor of the Univ. of Birmingham; "Interchange of Teachers and Students," Chairman, Lord Kenyon, Pro-Chancellor of the Univ. of Wales.

Reports of the Proceedings of the Congress, 1912 and 1921, G. Bell & Sons, London, pp. 500, price each £1 : 1s.

The THIRD CONGRESS will be held in Cambridge, July 13 to 16, 1926.

DEGREES CONFERRED BY THE UNIVERSITIES OF GREAT BRITAIN AND IRELAND

The older Universities have developed out of the Univs. of the Middle Ages under the compulsion of internal forces, with very little influence from outside. The historical continuity of their evolution and their individual independence account for certain customs and usages in which they differ one from another and from Univs. in other lands. Their titles of degrees afford an illustration of this. A Univ. of the Middle Ages was a Guild of learned men. Teaching was the craft of the Guild, whose fellowship carried with it the right to teach. An admitted aspirant for fellowship was termed a bachelor. The members of the Guild recognized his apprenticeship after submitting him to certain tests or, as we should term them, examns. After gaining some experience in teaching, and successfully maintaining a thesis in public disputation, the bachelor attained to his degree. Admitted into the Guild, with its *jus ubique docendi*, he was known indifferently as doctor, master, or professor. Still following this ancient usage, the degree in Scotland is the mastership, M.A. In Oxford, Cambridge, and Dublin, where the examn. for the bachelorship grew to be the determining test, the mastership, which carries with it all the privileges of membership of the Guild, or Senate, follows without further examn. after an interval of two or three years, but in no case less than six years from matricn. For convenience in standardizing the attainments of their alumni, modern Univs. have divided the degree into stages—usually described as the "first" and "higher" degrees—Bachelorship, Mastership, and Doctorate. The conferment of a first degree now marks the satisfactory completion of a three or four years' Univ. course.

At Oxford, Cambridge, and Dublin the Faculty of Arts is not subdivided. B.A. is the "first degree," whether the course leading to it be literary or scientific. In Trinity College, Dublin, it is necessary to secure the B.A. before proceeding to any other degree (except in music). At Cambridge there is no B.Sc. At Oxford the B.Litt. and B.Sc. are awarded for special study and research, like the M.Litt. and M.Sc. of Cambridge. At St. Andrews the B.Phil. or the B.Litt. may be taken either conjointly with, or after, the M.A.

At all other Univs. a course in Arts leads to the B.A. (in Scotland, M.A.), in Science to the B.Sc., in Commerce to the B.Com., and similarly to other titles in other departments of knowledge.

Each of the Faculties of Theology, Law, Medicine, and Music has its own bachelor's degree.

The signatures of the titles of degrees vary. In the following list the more usual signature is placed first:

Bachelor of Arts: B.A.

Bachelor of Science: B.Sc., Sc.B. Dub.

Bachelor of Science in its various applications: B.Sc. (Engineering), B.Eng. Liv., Sheff.; B.A.I. Dub.; B.Sc. (Metallurgy), B.Met. Sheff.; B.Sc. (Mining), B.Sc. (Mining Engineering) Glas.; B.Sc. Tech.; B.Sc. (Applied Chemistry); B.Sc. (Naval Architecture); B.Sc. (Veterinary Science), B.V.Sc. Liv.; B.Sc.Agr., B.Agr. Bris., Agr.B. Dub., B.Agr.Sc. N.U.I.; B.Sc. (Forestry), Agr.B. (Forestry) Dub.; B.Sc. (Horticulture); B.Sc. (Estate Management); B.Sc. (Economics); B.Sc. (Public Health), B.Hy. Durh.; B.Sc. (Pharmacy) Glas.; B.Sc. (Architecture) Glas.

Bachelor of Commerce: B.Com. or B.Comm., B.Com.Sc. Belf.

Bachelor of Architecture: B.Arch.

Bachelor of Dental Science: B.D.S., B.Ch.D. Leeds, B.Dent.Sc. Dub.

Bachelor of Education: Ed.B. (of the Scottish Univs., two years after a first degree).

In Theology the title of the first degree is B.D. In Law it is LL.B., B.C.L. Ox. Durh., B.L. or (open only to graduates in Arts) LL.B. the Scottish Univs. In Medicine the signature of the title is M.B., B.M. Ox.; in Surgery, Ch.B., B.Ch. Camb. Dub. Ox. Wales, B.S. Durh. Lond.; in Obstetrics, B.A.O. Dub. N.U.I. In Music, Mus.B., B.Mus. Birm. Durh. Ox. Wales.

The Primate's Degrees: Under powers conferred before the Reformation by the Pope, the Primate has the right to confer degrees. He has, on an average, conferred two doctorates in recent years.

Honours Degrees

In all Univs. of the United Kingdom the first degree in Arts (or Science, if a separate faculty) may be obtained as an ordinary degree, or with Honours.

At Oxford the Honours Schools (B.A.) are in Literæ Humaniores, Mathematics, Natural Science (including Engineering), Jurisprudence,

Modern History, Theology, Oriental Studies, English Language and Literature, Modern European Languages, and Philos., Politics and Economics.

At Cambridge (Triposes), in Anthropology, Classics, Economics, English, Geography, History, Law (B.A. and LL.B.), Mathematics, Mechanical Science, Modern and Mediæval Languages, Oriental Languages, Moral Science, Natural Science, Theology.

In Scotland: M.A. Hons. in Celtic, Classics, Econ. Science, English (Aberdeen, Geography), History, Latin and English, French, Italian, or Celtic, Mathematics and Natural Philosophy, Mental Philosophy, Modern Languages (St. Andrews, Natural Science), Sanskrit, Semitic Languages; B.Sc. Hons. in various branches of Science.

At Dublin (Moderatorships), in Mathematics, Classics, Mental and Moral Philosophy, Experimental Science, Natural Science, History and Political Science, Modern Literature, Legal and Political Science, Engineering Science, Celtic Languages, Oriental Languages.

At London, B.A. Hons. in Classics, Latin, Greek, Mathematics, Anthropology, Archæology, English, French, German, Celtic, Italian, Spanish, Portuguese, Dutch, Scandinavian Langs., Russian, Polish, Czech and Slovak, Serbo-Croat and Slovene, Indo-Aryan, Arabic, Persian, Hebrew and Aramaic (including Syriac), Chinese, Philosophy, Psychology, History, Sociology, Geography; B.Sc. Hons., Mathematics, Astronomy, Physics, Chemistry, Geology, Botany, Zoology, Physiology, Human Anatomy and Morphology, Psychology, Anthropology, Statistics; B.Sc. Hons. (Economics); B.Sc. Hons. (Engineering); B.Sc. Hons. (Mining); B.Sc. Hons. (Metallurgy); B.D. Hons.; LL.B. Hons.; M.B., B.S. Hons.; B.D.S. Hons.

In other Univs. Honours are obtainable in a variety of subjects.

Recognition of Study at other Universities

UNDERGRADUATES. The Univs. of Bristol and Leeds accept attendance for 1 yr. at any Univ. requiring residence as a qualification for a degree. At London any person who has passed the external Intermediate examn. before registering as an Internal student may take the Final Examn. after a 2 yrs.' course and qualify for a degree in the subsequent year. At Oxford members of certain Affiliated Colleges of the United Kingdom, and of certain approved home, colonial, and Indian Univs., who have attended lectures for at least 2 yrs. and attained a prescribed standard, are allowed to count the first term kept by residence as the fourth (see p. 205). At Cambridge a similar privilege is allowed to certain classes of students (see p. 55). At Dublin students who have spent 2 yrs. in Arts studies at certain Univs. (see list on p. 309) and have passed the examns. belonging to that period are given credit for the first academic year. At Durham a similar concession is made to students of science. In the Scottish (see p. 259) and certain other Univs. attendance at lectures and examns. passed in other Univs. may be recognized by the Board of Studies, or Senate, after consideration of each case. As regards Belfast, see p. 302.

GRADUATES. The remission to graduates of any other approved

University of 2 yrs. of the 4 yrs.' course is made by the Univ. of Dublin, of 1 yr. of the 3 yrs.' course by the Univs. of Bristol, London, and the N.U.I. For similar remissions made by Oxford and Cambridge, see pp. 205 and 55. At Oxford graduates of a home Univ. and others, who can satisfy the Education Committee that they have received a good general education, are eligible to apply for admission to an approved course of special study and research for the degree of B.Litt. or B.Sc., and, if successful, may supplicate for the degree after completing 2 yrs. of residence. At Cambridge graduates suitably qualified are admitted as Research students and may, after the satisfactory completion of a 2 yrs.' course and the submission of a dissertation, obtain the degree of M.Litt. or M.Sc. At Dublin a graduate of any approved Univ. who possesses a degree the equivalent of Moderatorship may, after 1 yr. of advanced study and research, present himself for examn. for the degree of Sc.B. Certain Univs. which have not adopted ordinances to that intent are prepared to consider applications from graduates of other Univs. who desire to read for higher degrees for remission of standing or exemption from examinations.

Higher Degrees

M.A. At Cambridge a Bachelor of Arts may, without further examn., proceed to the M.A. at the close of the 6th yr. after the end of his first term; at Oxford in the twenty-first term after matriculation; at Dublin 3 yrs. after passing the B.A. examn. At Durham and Sheffield graduates in Honours (Durham—1st or 2nd class) of 3 yrs.' and 1 yr.'s standing respectively are admitted to the Mastership without further examn.; other graduates must pass the M.A. examn. Other Univs. exact a further period of study from their own graduates, followed by the presentation of a thesis, or an examn., or both, of 1 yr. at Birmingham, Leeds, Sheffield, and the N.U.I.; of 1 yr. from graduates with Honours, and 2 yrs. from others, at Bristol, Manchester, and Wales; of two years from all graduates at Liverpool and London. Graduates of approved Univs. can obtain the Mastership after 1 yr. of advanced study and research at Birm., Belf., and the N.U.I.; after 2 yrs. at Bris., Leeds, Liv., Lond., Manc., Sheff., Wales. At London a thesis is required from Internal students in all branches, except Mathematics, in which it is optional, and an examn. At Leeds, Liverpool, and Manchester persons who have not graduated can obtain the M.A. degree after a course of advanced study and research extending, usually, over 3 years.

M.Sc. This degree is not conferred by Oxford, Dublin, or the Scottish Univs. At other Univs. it can be obtained by graduates of the Univ. under conditions similar to those for the M.A. At Durham, by graduates, B.Sc., of 2 yrs.' (Sheffield 1 yr.'s) standing who took first or second class Honours, without further test. At Leeds, by graduates, B.Sc., with Honours, of 1 yr.'s standing (other Bachelors of any Faculty of 2 yrs.' standing), after research (thesis required). At Liverpool, by graduates, B.Sc., with Honours, after 1 yr.'s higher study (thesis re-

quired). At London, by Internal students of 1 yr.'s or 2 yrs.', by External students of 1 yr.'s standing from B.Sc. with thesis (optional in Mathematics) and examn. At Manchester, by graduates, B Sc., of 1 yr.'s standing after thesis and examn. (at the discretion of the Faculty). At Cambridge the degree is conferred upon Research students (v. p. 59). In other Univs. which confer the degree, graduates of approved Univs. can obtain the M.Sc. on terms similar to those for the M.A.; at Durh. after 2 yrs'. advanced study in the Univ.

Other titles of Mastership conferred by various Univs.—M.Litt., M.Com., LL.M., M.Mus., M.A.O., M.Ch., Ch.M., M.Ch.Orth., M.D.S., M.V.Sc., M.H. (Hygiene), M.Eng., M.Sc.Tech., M.Met., M.Arch., M.Ed.

Ph.D. All the Univs. of the United Kingdom now confer the degree of Philosophiæ Doctor. Candidates entering upon a course of advanced study and research for this degree must be at least 21 (Oxford, Brist., L'pool., Durh , Wales, Dub.—no minimum age); must ordinarily be graduates either of the Univ. or of some other approved Univ.; must have pursued their studies at a Univ. or Univs. for a period of at least 3 yrs. (Oxford—4, London—2, Dublin—not specified); must produce evidence of fitness for the proposed course of study and research. The course for the degree extends ordinarily over at least 2 years (Oxford, Cambridge, Scottish Univs. and N.U.I.—3 years). At its termination the student must submit a dissertation and may be required to qualify also by examn. The degree is granted in any faculty in which the Univ. is prepared to receive advanced students.

A candidate for the degree of Ph.D., as an External student of the Univ. of London, must have graduated in the Faculty of Theology, Arts, Science, Engineering, or Economics in this University not less than 2 academic yrs. previously.

Litt.D. and *Sc.D.* The Doctorate in Letters or in Science is conferred upon Masters of Arts or Science (Wales and Dublin, Bachelors or Masters) distinguished by their contributions to the advancement of learning or science. The claim to the degree must be based either upon a special thesis, as at London, or upon published works. In certain Univs. the Faculty may require the applicant to appear for examn. An applicant for the Doctorate must be of 3 yrs.' standing from graduation at Dublin, N.U.I. (for D.Sc. Pub. Health); 4 yrs.' at Manchester, London (for D.Sc. and External D.Lit.); 5 yrs.' at Birmingham, Sheffield, N.U.I. (for D.Litt., D.Litt. Celt., D.Sc.), and the Scottish Univs.; 6 yrs.' at Belfast, Durham (for D.Sc.), Leeds, Liverpool (5 yrs. from M.A. or, for D.Sc., from M.Sc. or Ph.D.), Bristol, Cambridge; 7 yrs.' at Oxford, London (for Internal D.Lit.); 10 yrs.', Univ. of Wales (3 yrs. from M.A., 2 yrs. from Ph.D.), Durham (for Litt.D.).

Graduates of other Univs. who have been admitted to the degree of M.A. or M.Sc. (Oxford M.A., B.Sc., or B.Litt.; Dub. B.A.) can proceed to the Litt.D. or Sc.D. under the prescribed regulations. In Scotland Honours graduates of approved Univs. of 5 yrs.' standing who have spent the equivalent (4 terms) of two winter sessions in

research at a Scottish Univ., have submitted a satisfactory thesis or published work, and have, if required, passed an examn., are admitted to the Doctorate. At Bristol the degree of D.Sc. can be obtained without previous admission to the M.Sc. At London and Manchester a candidate for the Doctorate may be specially exempted from the examn. for M.A. or M.Sc.

D.Hy. (Durh.) 2 yrs. from B.Hy.; examn., thesis.

Degrees in Divinity

B.D. is conferred after examn. in the Scottish Univs. and the Univs. of Durham, London, Manchester, and Wales; after examn. and submission of a thesis at Dublin; after examn. and the submission of a dissertation and published works at Cambridge (examn. may be omitted) and at Oxford. At London the course must extend over 3 yrs., subsequent to matriculation. In Scotland a candidate must be M.A. of a Scottish Univ. who has taken a theological course in a specially recognized institution, or a graduate of an approved Univ. who has taken a complete theological course of at least 2 yrs. in the Univ. conferring the degree; at Dublin, a B.A. of 3 yrs.' standing; at Durham, a man of 25 yrs. of age, who is either a graduate of 2 yrs.' standing or the holder of the Diploma in Theology; in Wales, a graduate who, subsequent to graduation, has studied for 3 yrs. at one of the Associated Theol. Colls. of the Univ.; at Cambridge, a candidate must be M.A. or LL.M.; at Oxford, a candidate must be a M.A. or must be 26 yrs. of age, have followed a course of study in Christian Theology extending over 6 terms, and resided at the Univ. during 6 terms.

D.D. In Scotland the degree is conferred *honoris causa tantum*. At London it is conferred upon B.D.'s who took Honours in at least one subject, on presentation of a dissertation, followed by an examn., if the examiners so desire. At other Univs. it is conferred in consideration of published works, or a dissertation (and, at Oxford, a *viva voce* examn., if the judges so desire). The requisite standing is, at Cambridge and London, 5 yrs. from B.D.; Dublin, 8 yrs. from B.A.; Durham, 10 yrs. from B.A.; Manchester, 4 yrs. from B.D. (or 6 yrs. for B.D.'s of other Univs. who have studied for 2 yrs. at Manchester); Oxford, 14 yrs. from matricn., or, if he was admitted to the degree of B.D. as a graduate of another Univ., the candidate must have attained the age of 33; Wales, 6 yrs. from B.D.

Degrees in Medicine and Surgery

M.B., Ch.B. The regulations for these degrees are practically uniform. Preliminary examinations satisfying the requirements of the General Medical Council (see Appendix XI.). Registration as a medical student by the G.M.C. is recommended. Satisfactory attendance during at least 5 yrs. at courses of study and hospital practice. Four examns. (in some Univs. grouped as three or two). All examns. must be passed at the Univ. granting the degree, with the exception of the first, in Chemistry, Physics, and Biology, from which a

candidate may be exempted if he has passed an equivalent examn. at the Univ., or elsewhere (Scottish Univs., Birmingham, Bristol, Dublin for S. African students only, Durham, London, Oxford Senior Students, Sheffield). Study in the Univ. for at least 3 yrs , except for the degrees as an External student of the Univ. of London, who must study for 1 yr. in a Univ. of the United Kingdom ; or for 2 yrs , Scottish Univs., Leeds, Liverpool, Manchester ; for 1 yr. College of Medicine, Newcastle-on-Tyne (Durham). The Univs. of Oxford and Cambridge exact 3 yrs.' residence, but allow students to do any or all of their medical work at other recognized medical schools. At Oxford, Dublin, Univ. of Wales, candidates must graduate B.A. (or B.Sc., Wales) before admission to a medical degree.

M.D. Candidates must be M.B., Ch.B. of, usually, 2 yrs.' standing (Oxford, 10 yrs. from matriculation ; Cambridge, M.B. of 3 yrs.', or M.A. of 4 yrs.' standing ; Leeds, Sheff., M.B., 1 yr.'s standing ; Dublin, of M.A. standing ; N.U.I., M.B. of 3 yrs.' standing). A dissertation is compulsory in almost all Univs., followed by an examn., unless the examiners pronounce the dissertation to be of such merit as to render further examn. unnecessary.

Ch.M. Regulations similar to those for M.D.

D.Ch. (Durh.). Candidate must have devoted, subsequently to having obtained a registrable qualification, 3 yrs. (including one at least in the Univ. and 6 months at least abroad) to the study of Surgery and ancillary subjects.

Degrees in Dentistry and in Veterinary Science are obtainable under somewhat similar conditions.

Degrees in Law

LL.B. (or *B.C.L.*), obtainable with Honours or as an ordinary degree. In the Scottish Univs. candidates must have graduated M.A. ; at Dublin, Durham (B.C.L.), National University of Ireland, B.A. At Durham candidates must be of 4 yrs.' standing from B.A. In Wales the course extends over 3 yrs. for a pass degree and 4 yrs. for an Honours degree. At Belfast graduates of this or of some other Univ. are eligible for the degree after a 1 yr.'s course in Law ; at Oxford, after a 2 yrs.' course, if they obtain Honours in the B.C.L. examination. At Sheffield a graduate of a Univ. of the United Kingdom who has attended for 1 yr. the intermediate course and for 1 yr. the Final course in Law and for 2 yrs. studied in a recognized institution, may be a candidate for the degree. In the majority of Univs. there are two examns., Intermediate and Final. For B.L. v. p. 260.

LL.M. Cambridge, Leeds, Liverpool, London, Manchester, Sheffield, Wales. By standing for graduates in Law with Honours, except at Leeds and Manc., where a dissertation must be presented. For others, after examn. or (Camb.) dissertation, or both (Wales). Liverpool requires 2 yrs. of approved study.

LL.D. (or *D.C.L.*). By the Scottish Univs. the Doctorate is awarded only *honoris causa tantum*. Other Univs., unless the degree be awarded *honoris causa*, require the submission of a thesis, dissertation, or published works, and may require attendance at an examn.; in Dublin a candidate may elect to undergo examn. in lieu of offering a thesis, etc. The requisite standing for the Doctorate is, at London, 2 yrs. from Honours LL.B.; Dublin, 3 yrs. from B.A. of Dub., Ox., or Camb.; Manchester, 4 yrs. from LL.B.; National Univ. of Ireland and Sheffield, 5 yrs. from LL.B.; Oxford (D.C.L.), 5 yrs. from B.C.L.; Cambridge and Liverpool, 5 yrs. from LL.M.; Leeds, 6 yrs. from LL.B.; Durham (D.C.L.) and Wales, 10 yrs. from graduation or 3 yrs. from LL.M.

Degrees in Music

The degrees of Mus.B. (or B.Mus.) and Mus.D. (or D.Mus.) are conferred by the Univs. of Cambridge, Dublin, Durham, Edinburgh, London, Manchester, Oxford, and Wales; B.Mus. and M.Mus. Birmingham; Mus.M. Cambridge and M.Mus. Wales.

Mus.B. At Birmingham, Cambridge, Dublin, Edinburgh, London, Manchester, and Wales, students must pass the same Entrance examn. (Matriculation, Previous, or Preliminary) as students in Arts; with, at Birmingham, where the degree is an Honours degree, an examn. in theory and in execution. At Durham they are admitted on a *testamur* as Students of Music. At Oxford they must pass either Responsions or the Preliminary for Students of Music, in which, if two of the three languages, French, German, Italian, are taken, neither Greek nor Latin is obligatory. In Wales a student must attend an intermediate class in Arts or Science in addition to the Music course. Residence is not obligatory at Dublin, Durham, or Oxford. At Edinburgh students must study Music in the Univ. for one whole winter session. As a rule, the course extends over 3 yrs. with two, or three, examns., including an exercise for the Final examn.

Mus.M. Conferred 3 yrs. (Wales—2 yrs.) after the Mus.B. for original work and dissertation (Birmingham), after examn. and exercise (Cambridge, Wales).

Mus.D. Conferred at Cambridge on graduates not less than 30 yrs. of age, in recognition of distinction as Composer; in Wales (D.Mus.) on B.Mus. of 10 yrs.' or M.Mus. of 3 yrs.' standing on consideration of original compositions; at Edinburgh on Mus.B.'s of 3 yrs.' standing, after examn. as Composer, Executant, or Theorist or Historian (Dissertation), and also *honoris causa tantum*; at Dublin on Mus.B.'s after further examn. or practical test; at London on Mus.B.'s of 2 yrs.' standing, Oxford 3 yrs.', Manchester 4 yrs.', Durham and N.U.I. 5 yrs.', after exercise and examn.

QUALIFICATIONS OTHER THAN UNIVERSITY DEGREES REFERRED TO IN THE YEARBOOK BY LETTERS AFTER NAMES

[See also lists of medical qualifications in Appendix XI. In the appendices relating to the various professional associations some

account is given of the examinations, etc., whereby their qualifications are obtained.]

A.C.A. . . . Associate of Institute of Chartered Accountants
A.C.G.I. . . . ,, City and Guilds of London Institute.
A.I.C. . . . ,, Institute of Chemistry.
Assoc.Inst.M.M. . . ,, Institution of Mining and Metallurgy
A.M.I.A.E. . Associate Member of Institution of Automobile Engineers.
A.M.I.C.E. . . . ,, ,, ,, Civil Engineers.
A.M.I.Chem.E. . . ,, ,, ,, Chemical Engineers.
A.M.I.E.E. . . . ,, ,, ,, Electrical Engineers.
A.M.I.Mech.E. . . ,, ,, ,, Mechanical Engineers
A.M.Inst.M. and Cy.E. ,, ,, ,, Municipal and County Engineers.
Assoc.M.I.Min.E. . ,, ,, ,, Mining Engineers.
A.M.I.N.A. . . . ,, ,, ,, Naval Architects.
A.M.Inst.P.T. . . ,, ,, ,, Petroleum Technologists.
A.M.I.Struct.E. . . ,, ,, ,, Structural Engineers.
A.R.A.M. . . . ,, of Royal Academy of Music.
A.R.C.O. . . . ,, ,, College of Organists.
A.R.C.S. . . . ,, ,, College of Science.
A.R.E. . . . ,, ,, Society of Painter Etchers.
A.R.I.B.A. . . . ,, ,, Institute of British Architects.
A.R.S.M. . . . ,, ,, School of Mines.
A.R.W.S. . . . ,, ,, Society of Painters in Water-Colours.
C.A. Chartered Accountant.
D.I.C. Diploma of Imperial College of Science and Technology.
D.M.R.E. . . . ,, in Medical Radiology and Electrology.
D.O.M.S. . . . ,, in Ophthalmic Medicine and Surgery.
D.P.H. . . . ,, in Public Health.
D.P.M. . . . ,, in Psychological Medicine.
D.T.M. . . . ,, in Tropical Medicine.
D.V.S.M. . . . ,, in Veterinary State Medicine.
F.A.I. . . . Fellow of Auctioneers' Institute.
F.B.A. . . . ,, British Academy.
F.C.A. . . . ,, Institute of Chartered Accountants.
F.G.S. . . . ,, Geological Society.
F.I.A. . . . ,, Institute of Actuaries.
F.I.C. . . . ,, ,, Chemistry
F.Inst.P. . . . ,, ,, Physics.
F.L.S. . . . ,, Linnean Society.
F.R.A.M. . . . ,, Royal Academy of Music.
F.R.C.O. . . . ,, ,, College of Organists.
F.R.C.P. . . . ,, ,, ,, Physicians, London.
F.R.C.S. . . . ,, ,, ,, Surgeons, England.
F.R.C.V.S. . . . ,, ,, ,, Veterinary Surgeons.
F.R.I.B.A. . . . ,, ,, Institute of British Architects.
F.R.S. . . . ,, ,, Society.
F.S.A.A. . . . ,, Society of Accountants and Auditors.
F.S.S. . . . ,, Royal Statistical Society.
F.Z.S. . . . ,, Zoological Society.
L.C.P. . . . Licentiate of the College of Preceptors.
L.D.S. . . . ,, in Dental Surgery.
L.R.I.B.A. . . . ,, of the Royal Institute of British Architects.
M.I.A.E. . . . Member of Institution of Automobile Engineers.
M.I.Chem.E. . . . ,, ,, Chemical Engineers.
M.Inst.C.E. . . . ,, ,, Civil Engineers.
M.Inst.E.E. . . . ,, ,, Electrical Engineers.
M.I.Mech.E. . . . ,, ,, Mechanical Engineers.
M.Inst.M. and Cy.E. . ,, ,, Municipal and County Engineers.
M.I.Min.E. . . . ,, ,, Mining Engineers.
M.Inst.M.M. . . . ,, ,, ,, and Metallurgy.
M.I.N.A. . . . ,, ,, Naval Architects.
M.I.P.T. . . . ,, ,, Petroleum Technologists.
M.I.Struct.E. . . . ,, the Institute of Structural Engineers.
M.P.S. . . . ,, the Pharmaceutical Society.
M.R.C.V.S. . . . ,, the Royal College of Veterinary Surgeons.
M.R.S.I. . . . ,, the Royal Sanitary Institute.
N.D.A. . . . National Diploma in Agriculture.
N.D.D. . . . ,, ,, Dairying.
N.D.P. . . . ,, ,, Poultry Husbandry.

P.A.S.I. . . . Professional Associate of the Surveyors' Institution.
R.O.I. . . . Royal Institute of Oil Painters.
Wh.Sch. . . . Whitworth Scholar.

N.B.—The letters used in the Yearbook are not in all cases those authorized by the Associations; *e.g.* M.Inst.C.E. is sometimes abbreviated to M.I.C.E., M.I.Mech.E. to M.I.M.E.

UNIVERSITY OF BIRMINGHAM

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TREASURER—HUGH MORTON, M.A.

PRINCIPAL—C. GRANT ROBERTSON, C.V.O., M.A. Oxford, LL.D. Edin.

VICE-PRINCIPAL—Prof. F. W. BURSTALL.

REGISTRAR—JOHN H. COSTAIN, M.A.

SECRETARY—C. G. BURTON.

LIBRARIAN—E. H. F. MILLS, M.A.

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Martineau, C. E., M.A. Camb., M.Com., F.C.A. Prof.
Hughes, C. L., A.C.A. Lectr.

Agriculture, v. Zool.

Anatomy, Human, and Anthropology

Brash, J. C., M.A., M.D., M.B., Ch.B., B.Sc. Prof.
Haslam, W. F., M.B., Ch.B., F.R.C.S. Lectr.
Payton, C. G., M.B., Ch.B. Lectr. and Sr. Demr.
Hill, W. C. O., M.D. Demr.
Raison, C. A., M.B., Ch.B., F.R.C.S. Hon. Demr.
Rose, Baron T., B.Sc., M.B., Ch.M., F.R.C.S. Hon. Demr.
Shufflebotham, Hilda N., B.Sc., M.B., F.R.C.S. Hon. Demr.

Archæology, Mediæval

Humphreys, J. Hon. Reader.

Biology

Poulton, Ethel M., M.Sc. Lectr.

Botany [Mason Prof.

Yapp, R. H., M.Sc., M.A. Camb.,
Elliott, Jessie S., B.Sc. Lond., D.Sc. Lectr.
Leach, W., M.Sc. Manc. Asst. Lectr.

Brewing

Ling, A. R., M.Sc., F.I.C. Prof.
Nanji, D. R., D.Sc., A.I.C. Lectr. and Demr.

Chemistry

Haworth, W. N., D.Sc. Manc., Ph.D. Gött. Mason Prof.

Lectrs. :

Carter, S. R., M.Sc., A.I.C. Sr. Lectr. in Physical C.
Wardlaw, W., D.Sc. Durh., F.I.C.
Wood, C. E., M.Sc., A.I.C.
Nicholas, S. D., B.A. Ox., A.I.C.
Cooper, E. Ashley, D.Sc. (Lond.), F.I.C. (Pub. Health Chem.)
Pinkard, F. W., M.Sc. Wales., A.I.C.
Glover, T. J., Ph.D., M.Sc. N.U.I.
Drew, H. D. K., Ph.D., M.Sc. Lond., A.I.C.
Hickinbottom, W. J., Ph.D., A.I.C. Asst. Lectr.

Classics

Thomson, J. Oliver, O.B.E., M.A. Aberd., B.A. Camb. Prof. (Latin).

Hirst, Margaret E , M.A. Camb. Lectr.

Barratt, A. J., M A. Ox. Lectr. (Latin).

Dodds, E. R., B.A. Ox. Prof. (Greek).

Commerce, v. also Acc., Ec., Fin.

Rees, J. F., M.A. Ox. Prof.

Commercial Law

Tillyard, F., M.A. Ox., M.Com., Barr.-at-Law Prof.

Dental Science, v. *infra*

Economics

Whale, P. B., B.Sc.Econ. Lond., M.Com. Lectr.

Education

Valentine, C. W., M.A. Camb., D.Phil. St. And. Prof.

Heads of Training Depts. :

Braddock, A. P., M.A., B.Sc. Lond.

Hammond, Marjorie, B.A. Dub.

Gill, Conrad, Litt.D. Leeds, M.A. Camb., Senr. Tutor, Continuation Dept.

Lectrs. :

Chapman, A. E., M.A. Camb.

Scott, Elizabeth, B.A. Belf.

Ritchie, Frances M., M.Sc. Asst. Lectr. in Secondary Dept.

Buchanan, Freda M., M.A. Edin.

Poulton, Ethel (v. Biology)

Jebb, Eglantyne M., M.A. Ox.

Simpson, Lilian E., B.A.

Cull, E. C., B.Sc. Lond.

Asst. Lectrs. :

Murray, Helen, M.A. Glas. (*Geog.*).

McGregor, Janet G., M.A., B.Ed., Ph.D. Edin. (*History* and Methods of teaching H.).

Stewart, Dorothy W., Mus.Bac. Edin.

Wilson, Claudine, M.A., Ph.D.

Engineering, Civil

Batho, C., D.Sc. McGill, M.Sc., B.Eng. Liv. Beale Prof.

Panton, R. C , M.Sc., M.A., B.A.I. Dub., A.M.I.C.E. Lectr.

Veal, T. H. P., B.Sc., A.M.I.C.E. Lectr.

Coultas, H. W., B.Sc. Leeds, M.Sc., A.M.I.Mech.E. Lectr.

Haywood, W., F.R.I.B.A. (Town Planning) Lectr.

Engineering, Electrical

Cramp, W., D.Sc. Manc., M.Sc. Tech., M.I.E.E. Prof.

Kipps, E. J., M.Sc., M.I.E.E. Lectr.

Harvey, G. M., M.Sc., B.Eng. Liv., A.M.I.E.E. Lectr. in Mining E.E.

Randall, O. R., B.Sc. Lond., M.Sc., Ph.D. Lectr.

Engineering, Mechanical

Burstall, F. W., M.Sc., M.A.Camb., M.I.Mech.E. Chance Prof.

Porter, R. C., M.Sc. Viet., A.M.I.C.E. Lectr.

Boden, F. H., B.Sc. (Machine Design) Lectr.

Ellis, S. J., B.Sc., A.M.I.C.E. Lectr.

Dean, H. P., B.Sc. (Machine Design) Asst. Lectr.

English

de Sélincourt, E., M.A., D.Litt. Ox. Prof.

Maitland-Smith, Isabella J., M.A. Aberd., B.A. Ox. Lectr.

Hughes, A. D. M., M.A. Ox. Lectr.

Milner-Barry, Alda, M.A. Camb. Lectr.

Jebb, Eglantyne M., M.A. Ox. Lectr.

Buchanan, Freda M., M.A. Edin. Lectr.

Gillett, E. W., B.A. Ox. Asst. Lectr.

Finance

Smith, J. G., M.A. Dub., M.Com. Birm. and Dub. Mitsui Prof.

French

Ritchie, R. L. Graeme, M.A., D.Litt. Aberd., D. de l'U. Paris, O.A. Prof.

Milne, Jane J., M.A., D.Litt Edin. Lectr

Robertson, M , M.A Edin. Asst. Lectr.

Fletcher, F. T. H., M.A. Asst. Lectr.

Frebault, Claire, L. ès L. Lyon Asst.

Geography, v. also Educn.

Kinvig, R. H., M.A. Liv. Reader.

Geology and Mineralogy

Boulton, W. S., D.Sc. Wales, M.Sc., A.R.C.S., M.I.Min.E., F.G.S. Prof.

Raw, F., B.Sc. Lond., F.G.S. (Spl. Lectr. in Petrology) Lectr.

Wills, L. J., Ph.D., M.A. Camb., F.G.S. Lectr.

German

Sandbach, F. E., M.A. Camb., Ph.D. Strass. Prof.

Strachan, L. R. M., M.A. Ox. Lectr.

Liddell, M. F., M.A. Edin. Lectr.

History, v. also Educn. [Prof.

Beazley, C. R., D.Litt. Ox., M.A.

Gill, Conrad (v. Educn.) Reader in Const. H.

Allen, G. C., M.Com. Fellow in Industrial H.

Lectrs. :

Sutcliffe, Dorothy, M.A. Manc. and Leeds

Adams, H. P., M.A. Camb. (Ancient H.).

International History

Stephens, J. S., M.A. Camb. Lectr.

Italian [Serena Prof.

de Castelvecchio, Linetta P., M.A.

Law

Smalley-Baker, C. E., M.A., LL.B. Ox., Barr.-at-Law Barber Prof.

Potter, H., LL.B. Lond. Reader.

Lowe, A. L., C.B.E., M.A., LL.B. Camb. Hon. Lectr.

Camm, W. C. Lectr.

Mathematics

Watson, G. N., Sc.D. Camb., D.Sc. Lond., F.R.S. Mason Prof.

Lectrs. :

Preece, C. T., M.A. Camb.

Colomb, Ruby, M.A. Lond.

Calderwood, Nora I., M A., B.Sc. Edin.

Lumsden, T. A., M.A., B.Sc. Edin.

Medicine, v. *infra*

Metallurgy [Feeney Prof.

Turner, T., M.Sc., A.R.S.M., F.I.C. (Lectr. in Dental M.)

Bamford, T. G., M.Sc. Liv. Lectr.

Harris, H., M.Sc., F.C.S. Lectr.

Turner, T. H., M.Sc. Lectr.

Mining, Coal, and Metal

Moss, K. N., O.B.E., M.Sc., A.M.I.C.E., M.I.Min.E., F.G.S. Prof.

Rees, J. P., A.R.S.M., D.I.C., A.M.Inst.M.M. Lectr. in Metal M.

Garrett, J. G., B.Sc., M.I.Min.E. Lectr. in Surveying.

Shearer, W. J., B.Eng., A.M.I.Min.E. Lectr. in Mine Rescue.

Music

Bantock, G., M.A., D.Mus. Edin. R. Peyton Prof.

Oil, Engineering and Refining

Cadman, Sir John, K.C.M.G., D.Sc. Hon. Prof. and Adviser.

Nash, A. W., B.Sc. Belf., M.Sc., M.I.Mech.E., M.I.P.T. Prof.

Timmins, L. P., A.M.I.P.T., F.G.S. Lectr.

Haldane, J. S., LL.D., M.D., F.R.S., Hon. Prof. and Dir. of Research Lab.

Graham, J. I., M.A. Camb., M.Sc. Lond., A.R.C.Sc.I. Asst. Dir. of Research.

Bowen, A. R., M.Sc., A.I.C. Lectr.
Elvins, O. C., M Sc. Research Asst.

Philosophy and Polit. Economy
Russell, L. J., M.A., Ph.D. Glas. Prof.
Harvey, J. W., M.A. Ox. Lectr.

Physics
Smith, S. W. J., M.Sc., M.A. Camb., D.Sc. Lond., F.R.S. Poynting Prof
Lectrs. :
Shakespear, G. A., D.Sc., M.A. Camb., B.A., B.Sc. Lond. (Spl. Lectr. in Expl. P.)
Barlow, G., D.Sc. Birm., Wales, and Lond.
Keene, H. B., D.Sc.
Ibbs, T. L., Ph.D.
Young, J., B.Sc. Lond., A.R.C.S.
Dee, A. A., B.Sc. Lond., D.I.C.
Demr. :
Johnson, M. C., B.A. Camb.

Physiology
Carlier, E. W. W., M.Sc., M.D. Edin. Prof.
Walker, Hilda, M.B., Ch.B. Lectr.
Pfister, Hester I., B.A., M.B., Ch.B. Edin. Asst. Lectr.

Russian
Tillyard, H J. W., M.A. Camb., D.Litt. Edin. Prof.

Spanish
Conroy, R., M.A. N.U.I. Lectr.

Zoology and Comp. Anatomy
Gamble, F. W., D.Sc. Manc., M.Sc., F.R.S. (Dir. of Agric. Z. Research) Mason Prof.
Newth, H. G., A.R.C.S., D.I.C., F.Z.S. Lectr.
Eastham, L., M.Sc. Leeds Asst. Lectr.

* Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*).

Bacteriology, v. Path.

Forensic M. & Toxicology
Morrison, J. T. J., M.A., M.B., B.Chir. Camb., F.R.C.S. Prof.
Walker, C., M.D., B.Sc. Asst.

Hygiene and Public Health, v. also Chem.
Robertson, Sir John, C.M.G., O.B.E., M.D., B.Sc. Prof.
Lewis, C. J., M.D., D.Sc. Assoc. Prof.
Auden, G. A., M.D., M.A., D.P.H. Camb., F.R.C.P. (Hygiene) Asst. Lectr.

Infant Hygiene and Dis. of Children
Parsons, L. G., M.D. Lond., F.R.C.P. (also Clin. Lectr.) Lectr.

Materia Medica
Kneale, J. C., M.B., Ch.B., M.P.S. Lectr.
Greenwood, F. R., M.D., B.S. Lond., M.B., Ch.B. Demr.

Medicine
Wynn, W. H., M.D., B.Sc. Lond., F.R.C.P. Prof.
Kauffmann, O. J., M.D., F.R.C.P. Prof.
Ball, L., M.D.
Lectr. for Dental Students and Asst.

Mental Diseases
Hughes, P. T., M.B., Ch.M. Edin., D.P.H. Lond. Lectr.
Joint Board of Research (Univ. and City) :
Mott, Sir F. W., K.B.E., M.D. Lond., F.R.S.
Lectr. in Pathology of M.D. and Hon. Dir. of the Laboratory.
Graves, T. C., M.D., F.R.C.S., M.R.C.V.S. Med. Supt.

* Exclusive of 40 clinical lecturers and tutors on the staffs of hospitals.

Pickworth, A. F., M.B., A.I.C. Research Offr.
Woodhouse, D. L., M.Sc. Research Scholar.

Midwifery and Dis. of Women

Whitehouse, Beckwith, M.S. Lond., F.R.C.S. Prof.
Lack, V. J., M.B., B.S. Edin. Lectr.
..... Asst.

Ophthalmology

Evans, J. J., M.D., F.R.C.S. Lectr.

Pathology and Bacteriology

Wilson, G. H., M.D. Glas. Prof. of Path.
Lamb, F. W. M., M.B., Ch.B. Asst. Lectr. in P.
Lewis, C. J., M.D., D.Sc. Edin., F.R.C.P.E. Lectr. in Advanced B.
Wyatt, R. B. H., M.A., M.B., Ch.B. Lectr. in B.
Shrewsbury, J. F. D., M.B., Ch.B. Lectr. in B.
Maguire, C. C. W., M.D. Asst.
Ash, E. B., M.B., Ch.B. Asst.
Stammers, A. F., L.D.S. Demr. for Dental Students.

Pharmacology, v. Therapeutics

Radiology

Black, Harold, M.D. Lectr.

Surgery [Prof.

Gamgee, L. P., Ch.M., F.R.C.S.
Billington, W., M.S. Lond., F.R.C.S. Prof.
Lucas, A., F.R.C.S. (S. for Dental Students) Lectr.
Goodwin, B. G., F.R.C.S. Asst.

Surgery, Operative

Barnes, F., M.S., F.R.C.S. Lectr.

Therapeutics, Pharmacology and

Stanley, D., M.D. Birm. and Edin., F.R.C.P. Prof.
Smellie, J. M., M.D. Edin. Lectr.

Dental Science, v. also Metall., Med., Path., Surg.

Matthews, G. F. C., B D.S., L.D.S. Lectr. (Orthod.).
Humphreys, H. F., M.B., Ch.B., M.D.S., L.D.S. Lectr. (D. Anat. and Physiol.).
Wellings, A. W., M.D.S., L.D.S. Lectr. (D. Histol., etc.).
Knott, W. M., L.D.S. Lectr. (D. Mechanics).
Madin, W. T., B.D.S., L.D.S. Lectr. (D. Surgery, etc.).
Broderick, R. A., D.S.O., M.B., M.D.S., L.D.S. Lectr. (D. Bacteriology).
Parrott, A. H., O.B.E., M.D.S., L.D.S. Lectr. (D. Mat. Med. and Therap.).
10 Clinical lecturers and tutors on the staff of the Dental Hospital.

Huxley Lecturer, 1925–1926

Sir Oliver Lodge on "Difficulties about the Ether."

University Extension

Tutors: J. W. Harvey (Jt.-Secy.) and 12 others.

AFFILIATED INSTITUTIONS

MIDLAND INSTITUTE. Students are admitted to Intermediate Arts examn. as Internal students.

SALTLEY TRAINING COLLEGE. Students taking the 4-yr. course are admitted to the Intermediate Arts examn. as Internal students.

HANDSWORTH AND LICHFIELD THEOLOGICAL COLLEGES. Students can take the 2nd and 3rd yrs. for the B.A. in their own Colls.

GENERAL INFORMATION

The University, formerly the Mason College founded by Sir Josiah Mason in 1880, was incorporated by Royal Charter in 1900. The Charter prescribes instruction in all branches of a liberal education, and such instruction especially as may be of service in the manufactures, commerce, and industrial pursuits of the Midlands. Arts, Medicine, and the Biological departments are still housed in the buildings of Mason College in the centre of the city. Other buildings have been erected and equipped at a cost of £750,000 at Bournbrook on a site of 50 acres.

LIBRARY, about 120,000 vols. *Special Collections*: Sargant, rich in French economic literature of about 1830–1860; Collings, some 350 books on agric. and land problems; Bunce, rich in nineteenth-century biography; Corbett, county, especially Shropshire, history. MUSEUMS, Anat., Dent., Geol., Zool.

LABORATORIES: Chemical (special organic, phys., electro-chem., analytical, and public health depts.); Engin., Metallurgy, and Mining (exceptionally well equipped and including coal-mining research lab., expl. coal-mine and oil-boring plant, petroleum engineering being a speciality); Brewing; Power-station supplying whole Univ. with lighting, heat, and power. A small OBSERVATORY is attached to the dept. of Physics. HOSPITALS (600 beds) available for clinics—General, Queen's, and many special.

FACULTIES: Science, Arts, Medicine, Commerce. Deans: Prof. Turner (Metallurgy), Prof. de Sélincourt (English), W. F. Haslam (Anatomy), Prof. F. Tillyard.

Departments of Education (training for teaching in primary, secondary, and continuation schools); Malting and Brewing and Bio-Chemistry of Fermentation; Legal Studies; Social Study; Industrial Certificates. Connected with the Medical Faculty is a *School of Dentistry*. Research work is co-ordinated by a University *Research Committee*.

MATRICULATION. See Appendix XXI.

DEGREES. B.A., B.Mus., LL.B., M.A., M.Mus., D.Phil., D.Litt.; B.Sc. (in Pure Science, in Engineering—Civ., Elec., Hydro-Elec., or Mech., in Metallurgy, or in Mining—Coal and Metal, or Oil), M.Sc., D.Sc.; M.B., Ch.B., B.Sc. (Pub. Health), B.D.S., M.D., Ch.M., M.D.S.; B.Com., M.Com.; Ph.D. (in any Faculty); LL.D. (Honorary).

No degree can be obtained without attendance upon prescribed courses in the Univ. extending over at least 3 academic yrs. after matricn. except in the case of graduates of other Univs., who are, under certain conditions, admitted to the 1-yr. courses for the M.A. and M.Sc. and to 2 yrs.' courses for the B.Sc. (courses in technical subjects), B.Com. (one year may in exceptional cases be taken elsewhere), Ph.D. (v. p. 17), M.D., or Ch.M.

B.A. Honours schools in Classics, French, German, Engl. Lit., Hist., Social and Polit. Sc., Philos., Maths., Music, Geography.

In the B.Com. courses one-third of the student's time may, if he chooses, be devoted to work in Applied Science.

The B.Sc. with Honours requires 3 yrs. after the Intermediate standard has been reached. The B.Sc. courses in Engineering and Oil Mining cover 4 yrs. Those in Mining involve practical work underground. Graduates of Oxford who have obtained the Ox. Dipl. in Scientific Engin. and Mining are eligible, subject to certain provisos, for the B.Sc. in Engin., Mining, or Metall. after 2 yrs.' study in Birmingham.

Special course in Spanish for students of applied science; 2 lecture hours a week for 2 sessions.

Med. students may spend their final yr. at any school or schools of Med. recognized by the Univ., and the Senate may recognize examns. passed therein as exempting from the 1st Med examn. They may obtain the B.Sc. as well as their Med. degree by devoting 6 yrs. after the pre-medical year instead of 5 to study in the Univ.

Candidates for the B.Mus. (Honours) must have passed the matricn. or an equivalent examn. and an examn. in the Rudiments of Music, and power of performance on some musical instrument.

The M.A., M.Com., and M.Sc. involve at least 1 yr. of study after completing the course for the bachelorship.

The M.A. may be taken in Educn. as well as in the ordinary Arts subjects.

The D.Phil. or D.Litt., M.Mus., or D.Sc. may be taken 3 yrs. after the M.A., B.Mus., or M.Sc.

Advanced Standing. Candidates who pass at entrance certain examns. ordinarily taken after the first year of a degree course may take the final examn. for the B.A. at the end of their second year and the M.A. at the end of their third year. Certain examns. of other approved Univs. and Examining Bodies are accepted as qualifying for such advanced standing.

Diplomas. *Art* Instructor's (2 yrs.' course), for students of the Municipal School of Art; *Brewing* (3 yrs.' course), Brewing Special for graduates (1 yr.); Graduates' *Commerce* (1 yr. course), open to graduates of any Univ. who have passed an adequate test in accounting; *Mining*; *Social Study* (1 yr. or, Higher Dipl., 2 yrs.' course preparatory for public administration, charity organization, factory welfare, trade union official work, etc.); Secondary, Primary, or Continuation School *Teachers'* (1 yr. course), for graduates of a Univ. of the U.K. or others equally qualified; *Dental Surgery* (4 yrs. subsequent to passing a recognized Pre-Dental examn.); *Public Health* (1 yr. course), not less than 2 yrs. after obtaining registrable qualification in Med., Surg., and Midw.

A Joint *Coal-mining* Diploma of the Univs. of *Oxford* and Birmingham may be taken by Oxford graduates in Engineering who, after 4 months' practical experience in coal-mining, pursue courses covering one session in this Univ. Tuition fee, £60. A similar Joint Diploma of Camb. and Birm. is given.

Mining students from *British Dominions*, not under 25 years of age, who have been regularly employed in mines for not less than 4 yrs. may take a special 2-yrs.' course (combined with practical experience) qualifying for the Univ.'s Mining Diploma.

Certificates for Brewers and Maltsters (2 yrs.).

An *Industrial Certificate* class has been instituted under the control of a joint board of Univ. and Trade Union representatives. This class provides two full days' instruction to members of Trade Unions, nominated by their Unions, in English Literature, Modern History, Economics, and Elementary Science. The class is held in all three terms of the Univ. session, and at the end an Industrial certificate is awarded after examn. The class is a new departure, as it is not based on the principle of evening work but on full-time day work, and the instruction is provided by members of the Univ. Staff. Evening classes are not provided by the Univ., this work being left to the Birm. and Midland Inst., Munic. Tech. Sch., etc.

RESEARCH. A joint standing committee of lay members of council and academic members of senate co-ordinates research work in all faculties, formulates policies of research, obtains funds, and co-operates with Gov. agencies and external bodies. Trust Funds (Spencer and Holcroft) amount to £10,000.

FEES. Matricn., £2. Tuition for B.A., £75; B.Sc., £75-£96; Engin., £221; Mining, £146-£198; Metall., £129-£175; Med., including Hospl. fees,

£170; LL.B., £29. Examns., Interm. and Final, for first degree, £10, except in Med., £20, and Engin., £12 : 10s. Laboratory research fees average about £20.

SCHOLARSHIPS for advanced students. Walter Myers (Travelling), £150 for 1 yr., renewable, for research in Path. or Clin. Med., open to graduates in Med. and Surg. of Birm. (who have also obtained the B.Sc.), London, Ox., or Camb.; 10 Scientific Research, tenable for 1 yr. (6 of £96 and 4 of £50 each), are offered annually.

RESIDENCE. For women there is a Hostel—Univ. House, Edgbaston Park Rd. (Warden), with grounds of 2¾ acres; for 70 men students—Chancellor Hall (Warden), Augustus Road, Edgbaston; for 30 men students, Queen's College (Warden), Somerset Road, Edgbaston. The cost of board and lodging is from £2 : 2s. upwards a week.

An APPOINTMENTS BOARD (Secy.—The Registrar) has been established.

GUILD OF GRADUATES. Six representatives serve on the Univ. Court of Governors, one of whom is also a member of the Univ. Council. A *Register of Graduates* and a *News Letter* are circulated annually to all members.

UNIVERSITY EXTENSION work includes Lectures and Tutorial Classes in the city and neighbouring towns.

PUBLICATIONS. *Calendar* (Oct.), 2s.; Sectional Prospectuses (April); *Careers* in Science; *Report of University Research Committee*, including list of research reports published during the session (Jan.); students' magazine, the *University Gazette*.

THE YEAR 1924–25

BENEFACTIONS. W. Waters Butler, £35,000 for the new Biological Block; an anonymous donor, £5000 for the same object; Sir Charles Hyde, £3125 for Chancellor's Hall; Messrs. Cadbury Bros., £2400 (to be spread over 3 years) towards the Research Scheme in the Faculty of Commerce; bequests from J. and H. Smith (£1000) and G. Heaton (£500); Sir H. Barber, £250 for the Law Library; Prof. Gamgee, £225 for prize in Surgery; £175 for Thompson Memorial Medal, and numerous smaller gifts and benefactions, together with many gifts of machinery, apparatus, etc., from industrial firms. A special grant was received from the Miners' Welfare Fund for the new Fuel Laboratory.

NEW DEVELOPMENTS. *The Joint Standing Committee for Research* published an extensive report on work done and in progress which received a wide publicity and occasioned many inquiries from British and Overseas Univs. An important Research Scheme, with a Research Fellow for three years to conduct a special investigation, has been arranged. *Buildings*: Important developments took place on the Edgbaston site in accordance with the general scheme for the complete establishment of the Univ. there; a new block (estimated at £100,000) is in process of erection for Zoology, Botany, Brewing, and Bio-chemistry, and these departments will be transferred from Mason College, probably by Oct. 1926; a new building to accommodate the Dept. of Petroleum Engineering was erected; provision was made for a new Fuel Laboratory for the Dept. of Coal-mining. A substantial extension of Chancellor's Hall of Residence for Men Students has been planned and will shortly be carried out. *New posts*: A full-time Reader in Geography and a Senior Woman Tutor for the women students in all Faculties. *The University Library*: The reorganization and extension steadily progressed. A special non-

recurring Treasury grant of £3000 to make good arrears in binding or special deficiencies was received.

RESIGNATIONS. Sir W. Ashley (Vice-Principal and Prof. of Commerce); Prof. G. T. Morgan (Chemistry); Prof. W. H. Moberly; G. H. Morley (Secretary).

STUDENTS. Full-time: preparing for first degree, 962, including 290 women, graduates, 83 (women 16); total full-time, 1425 (w.—486). Part-time: preparing for first degree, 40 (w.—5), for first diploma, 69 (w.—4), graduates, 32 (w.—6). Occasional, 143 (w.—49). Univ. Tutorial Class students, 668 (w.—237).

DEGREES OBTAINED. B.A., 73 (w.—54); B.Sc., 141 (w.—20); M.B., Ch.B., 46 (w.—7); B.D.S., 1; B.Com., 11 (w.—1); M.A., 20 (w.—7); M.Sc., 31 (w.—2); Ph.D., 9 (w.—1); D.Sc., 5; M.D., 10; M.Com., 3.

UNIVERSITY OF BRISTOL

VISITOR—H.M. THE KING.

CHANCELLOR—Rt. Hon. VISCOUNT HALDANE OF CLOAN, O.M., K.T., D.C.L., LL.D., F.R.S. (*ex officio* President of Court, Council, and Convocation).

PRO-CHANCELLORS—Rt. Hon. HENRY HOBHOUSE, M.A., LL.D.; Sir GEORGE A. WILLS, Bart., LL.D.; The Rt. Rev. the LORD BISHOP OF BRISTOL, D.D., LL D.; STANLEY H. BADOCK.

VICE-CHANCELLOR—THOMAS LOVEDAY, M.A. Ox.

PRO-VICE-CHANCELLOR—Prof. F. FRANCIS, D.Sc., Ph.D., F.I.C.

TREASURER—STANLEY H. BADOCK.

REGISTRAR—E. G. FRANCIS, M.A. Camb.

TUTOR TO THE WOMEN STUDENTS AND WARDEN OF THE UNIV. HALL OF RESIDENCE FOR WOMEN—MAY C. STAVELEY, M.A.

LIBRARIAN—W. L. COOPER, M.A. Ox.

HON. MEDICAL LIBRARIAN—C. KING RUDGE, M.R.C.S., L.R.C.P.

ASSOCIATED INSTITUTIONS

(In which specialized teaching is given or facilities for research are afforded.)

ROYAL AGRICULTURAL COLLEGE, CIRENCESTER, founded 1845 and associated with the Univ. from 1910, was closed during the war, but was reopened in 1923 with M. J. R. Dunstan, O.B.E., M.A., as Principal.

NATIONAL FRUIT AND CIDER INSTITUTE, LONG ASHTON (v. *infra*, LABORATORIES). *Director*—Prof. B. T. P. Barker, M.A.

REDLAND HIGH SCHOOL AND COLSTON'S GIRLS' SCHOOL, BRISTOL, for kindergarten training.

Theological—

BRISTOL BAPTIST COLLEGE. *Principal*—A. Dakin, B.D. Lond., D.Th. Heid.

WESTERN COLLEGE, BRISTOL. *Principal*—R. S. Franks, M.A., D.Litt.

THEOLOGICAL COLLEGE, SALISBURY. *Principal*—C. T. Dimont, M.A., D.D.

S. BONIFACE COLLEGE, WARMINSTER. *Principal*—J. W. S. Tomlin, M.A.

PROFESSORS, LECTURERS, ETC.

Agriculture

Dunstan, M. J. R., O.B.E., M.A. Ox., F.I.C. Prof.
Barker, B. T. P., M.A. Camb. (A. Biology) Prof.
Wallace, T., M.Sc. Durh., A.I.C. (A. Chem.) Lectr.
Briton-Jones, H. R., B.Sc. Lond., D.I.C. (Mycology) Lectr.
Grove, O. (Œnology), M.Sc. Lectr.
Lees, A. H., M.A. Camb. (Entomology) Lectr.
Spinks, G. T., M.A. Camb. (A. Botany) Lectr.
Tutin, F. (Bio-Chem.), M.Sc. Lectr.
Maynard, J. G., B.A. Camb. (Pomology) Lectr.
Ball, E., B.A. Camb. (Pomology) Asst. Lectr.
Mann, C. E. T., M.Sc. Lond. (Plant Physiology) Asst. Lectr.
Hutchinson, H. P., B.Sc. (Willow-growing) Lectr.
Hanley, J. A., A.R.C.S. Lond., Ph.D. Munich Lectr.
Hirst, F., A.R.C.Sc. (Micro-Biology) Lectr.
Weller, E. P., P.A.S.I. (A. Economics) Lectr.
Staniland, L. N., A.R.C.Sc. (Entomology) Asst. Lectr.
Nattrass, R. M., B.Sc. Lond. (Mycology) Asst. Lectr.
Ling, A. W., N.D.A. (A. Chem.) Asst. Lectr.
..... (Food Preservation) Demr.

Anatomy

Fawcett, E., M.D., C.M. Edin., F.R.S. Prof.
Stock, W. S. V., M.B., B.S. Lond., F.R.C.S. Demr.
Llewelyn, Miss G. R., M.Sc. Demr.
Adams, A. W., M.B., M.S. Lond., F.R.C.S. Demr.
Moore, C. A., M.S., M.B. Lond., Ch.M., F.R.C.S. (Surg. and Applied Anat.) Lectr.

Anthropology

..... Lectr.

Arabic, Aramaic, etc., v. Orient.

Art

Rothenstein, W., M.A. Sheffield (S.).
Wellington, H. L. (S.).

Bio-Chemistry, v. also Agric.

Nierenstein, M., Ph.D. Berne, D.Sc. Gén. Lectr.

Botany, v. also Agr.

Darbishire, O. V., B.A. Ox., Ph.D. Kiel Prof.
Hunter, C., M.Sc. Durh. Lectr.
..... Lectr.
Gilchrist, Miss G., B.Sc. Demr.
White, J. W. (Systematic B.) (S.).
Gardiner, G. F., F.R.H.S. (Gardening) (R.).

Chemistry, v. also Agric.

Francis, F., D.Sc. Manc., Ph.D. Erl., F.I.C. A. C. Pass Prof.
Davis, O. C. M., D.Sc. Lond., D.Sc., M.D., Ch.B., F.I.C. (also Lectr. in Med. to *Dental* Students and Demr. in For. Med. and Toxicol.) Lectr.
Rixon, F. W., M.Sc. Manc., Ph.D., M.A. Gies., F.I.C. Lectr.
Taylor, Millicent, D.Sc., F.I.C. Lectr.
Appleyard, A., M.Sc. Leeds, F.I.C. Lectr.
Menzies, R. C., Ph.D. St. And., F.I.C. Asst. Lectr.

Chemistry, Applied, v. p. 37.

Chemistry, Hygienic [Lectr.
Russell, E., B.Sc. Lond., F.I.C.

(R.) = Recognized teacher. (S.) = Special Lectr. * Head of Dept.

Chemistry, Physical
McBain, J. W., M.A. Tor., D.Sc. Brown., Ph.D. Heid., F.R.S., F.I.C. Leverhulme Prof.
Laing, Mary E., D.Sc. Research Asst.

Classics [H. O. Wills Prof.
Dobson, J. F., M.A. Camb. (Greek)
Brooks, F., M.A. Ox. Prof.
Pitman, H., M.A. Ox. Lectr.

Commerce, v. Engineering

Dental Science, v. *infra*

Economics, v. also Loc. Govt.
Whyte, H., M.A. Leeds Lectr.*
Burrows, H. B., B.Com. Leeds Asst. Lectr.

Education
Wodehouse, Helen M., M.A. D.Phil. Birm. Prof.
Pease, Marian F., LL.D. (S.).
Foster, T. S., M.A. Ox., Master of Method (S.) *
Mullock, Amy, M.Sc. Manc., M.A. Mistress of Method.*
Childs, E. C., M.A., B.D. Lond. Lectr.
Carré, M. H., M.A. Ox. (E. and *Philos.*) Lectr.
Nicholson, J. H., B.A. Ox., M.A. Lectr.
Drummond, H. Ann, B A. Lond. Lectr.
Morgan, L. T., M.A., B.Sc., L.C.P. Lectr.
Whitwell, Gladys C., N.F.U. Lectr.

Asst Lectrs. (v. also Local Gov.) :
Radclyffe, E. J. D., B.A. Camb.
Davies, Hilda M., M.A. Wales
Byrne, Miss J. W. (Kindergarten).
Wilson, Miss R. M. (Kindergarten).
Skinner, F. Drawing (R.).
Warrell, A., F.R.C.O. Music (R.).
Carlson, J. E. G. Phys. Exerc. (R.).
Jennings, Miss E. S. ,, ,, (R.).

Engineering, v. p. 37.

English [Winterstoke Prof.
Crofts, J. E. V., B.A., B.Litt. Ox.
Haworth, P., M.A. Manc., Ph.D. Innsb. Lectr.
Birkhead, Edith, M.A. Liv. Lectr.
Needham, H. A., M.A. Birm. Asst. Lectr.

French, v. also p. 37. [Prof.
Boillot, F. F., M.A. Shef., L. ès L.
Perkins, B. N., M.A. Camb. Lectr.
Goyer, M. Asst. Lectr.

Geography [Lectr.*
Jervis, W. W., M.Sc. Durh., F.G.S.
Kendall, O. D., B.A. Camb. Asst. Lectr.

Geology
Reynolds, S. H., M.A., Sc.D. Camb. C. Wills Prof.
Turner, H. W., M.A. Ox., F.G.S. Lectr.
Smith, S., M.A. Camb., D.Sc. Durh. Lectr.

German
Boyd, J., M.A., B.Litt. Ox. Reader.

Hebrew, v. Orient. Langs.

History
Leonard, G. H., M.A. Camb., M.A (Modern H.) H. O. Wills Prof.
Staveley, May C., M.A. Dub., M.A. Lectr.
Gardner, Alice, M.A. (Byzantine H.) Reader.
MacInnes, C. M., B.A. Ox. and Dal. Lectr.
Gough, J. W., B.A. Ox. Asst. Lectr.

Italian
Gualtieri, Signa. E. Lectr.*

Law [Lectr.*
Lewis, M. M., M.A., LL.B. Camb.
Veale, E. W. W., LL.B. Lond. Asst. Lectr.
Wilshere, A. M., M.A. Ox., LL.B. Lond. Lectr. (Comml. L.).

(R.)=Recognized teacher. (S.)=Special Lectr. * Head of Dept.

Local Government
Cashmore, Hilda, M.A. Ox. Lectr. (also R. in *Social Work* in Dept. of Educn.).

Mathematical Physics
Lennard-Jones, J. E., D.Sc. Manc., Ph.D. Camb. Reader.

Mathematics
Hassé, H. R., M.A. Camb., D.Sc. Manc. H. O. Wills Prof.
Todd, H., B.A. Camb. Lectr.
Vint, J., M.A. Belf. Lectr.
Fraser, P., M.A. Camb., B.Sc. Aberd. Lectr.

Maths., Applied
Boulton, E. S., M.A. Camb., B.Sc. Lond. Prof.

Medicine, v. *infra*

Military Subjects [(S.).
Killick, Capt. A. H., D.S.O., M.C.

Mining, v. Engin.

Music
..... (S.).
Hunt, H. W. (History of M.) (R.).
Beachcroft, R. O., Mus.D. (Teaching Methods) (R.).

Oriental Languages
Segall, J. (Arabic) (S.).
O'Leary, De L., M.A., D.D. Dub. (Aramaic and Syriac) (S.).
Polack, J., B.A. Lond. (S.).

Palæontology
Bolton, H., D.Sc. Reader.

Philology, Comparative
Sibree, E., M.A. Ox. Lectr.

Philosophy, v. also Educn.
Russell, L. J., M.A., B.Sc., D.Phil. Glas. Prof.

Physics, v. also Chem., Math.
Tyndall, A. M., D.Sc. Lond., D.Sc. H. O. Wills Prof.
Williams, Illtyd, M.Sc. Wales Lectr.
Piper, S. H., D.S.O., B.Sc., F.I.P. Lond. Lectr.
Potter, H. H., Ph.D. Lond., B.Sc. Asst. Lectr.
Sucksmith, W., B.Sc. Leeds Lectr.

Physiology
Buckmaster, G. A., M.A., M.D., B.Ch., D.P.H. Ox. H. O. Wills Prof.
Short, A. R., B.Sc., M.D., B.S. Lond., F.R.C.S. Lectr.
Hickman, H. R. B., M.A., M.B., B.Ch. Ox. Lectr.
Rowell, Miriam, M.A. Camb. ,,

Social Work, v. Local Gov.

Technology, v. *infra*

Theological Subjects
Dakin, A., B.D. Lond., D.Th. Heid.
Robinson, F. E., M.A., B.D. Lond., M.A.
Franks, R. S., M.A. Camb., D.Litt. Ox.
Macey, T. S., B.A. Lond., M.A.
Dimont, C. T., D.D. Ox., M.A.
Bellars, A. R., M.A. Camb. and Bris.
Wand, J. W. C., M.A. Ox.
Prideaux, S. P. T., D.D. Ox.
Burn, A. E., D.D. Camb.
Tomlin, J. W. S., M.A. Ox.
Marshall, H. S., A.K.C.

Zoology [Lectr.*
Henderson, W. D., M.A., B.Sc. Aberd., Ph.D. Freib. i/B.
Low, J. W., B.Sc. Edin., F.Z.S. Asst. Lectr.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics
Flemming, A. L., M.B., Ch.B. Lectr.*
Corfield, C., M.R.C.S., L.R.C.P. (C.).
Cooper, R., M.R.C.S., L.R.C.P. (R.

(C.)=Clinical Lectr. (R.)=Recognized teacher. (S.)=Special Lectr.
* Head of Dept.

Tutors:
Stock, W. S. V., M.B., B.S. Lond., F.R.C.S. (v. also Anat.).
Logan, H. B., M.R.C.S., L.R.C.P.

Bacteriology, v. Pathology

Diseases of the Skin
Wills, W. K., O.B.E., M.A., M.B., B.Chir. Camb. (C.).
Kingston, S. H., M.B., Ch.B., D P.H. (C.).

Fevers
Peters, B. A., M.D., B.Ch., D.P.H. Camb. (C.).

Forensic Med., etc., v. also Chem.
Parker, G., M.A., M.D. Camb. Lectr.*

Laryng., Rhin., and Otology
Watson-Williams, E., M.B., B.Ch. Camb., Ch.M. (C.).
Wright, A. J. M., M.B., B.S. Lond., M.B., Ch.B., F.R.C.S. Lectr.*
Harty, J. P. I., B.A., M.B., B.Ch., R.U.I., F.R.C.S. (C.).
Harris, H. E., B.A., M.B., Ch.B. Camb. (R.).

Medicine, v. also Path., Pharm.
Edgeworth, F. H., M.A., M.D., B.Chir. Camb., D.Sc. Lond. (C.) Prof.
Nixon, J. A., C.M.G. B.A., M.D., B.Chir. Camb., F.R.C.P. Prof.†
Symes, J. O., M.D. Lond., D.P.H. (C.).
Coombs, C. F., M.D., B.S. Lond., F.R.C P. Clinical Dean (C.).
Charles, J. R., M.A., M.D. Camb., F.R.C.P. (C.).
Clarke, R. C., O.B.E., M.B., Ch.B. (C.).
Birrell, J. A., M.D., B.S. (R.). Jr. Tutor.
Herapath, C. E. K., M.D., B.S. Lond. (C.).
Carleton, H. H., M.A., M.D. Ox. Sr. Tutor (C.).
Trist, J. R. R., M.R.C.S., L.R.C.P. Tutor.

Medicine (Dental Students)
Davis, O. C. M. (v. Chem.) Lectr.

Mental Diseases [(C.).
White, E. B. C., M.R.C.S., L.R.C.P.

Obstetrics
..... (C.), Prof.
Rayner, D. C., F.R.C.S. (C.).†
Statham, R. S. S., O.B.E., M.D., Ch.M. Lectr. & Demr., (C.).
Smythe, H. J. D., M.S. Lond., F.R.C.S. (C.).
Baker, Lily, M.D., B.Ch. Lond., B.A.O., F.R.C.S.I. (R.).

Ophthalmology
Walker, C. H., B.A., M.B. Camb., F.R.C.S. Lectr.*
Cross, F. R., M.B. Lond., LL.D., F.R.C.S. Reader.
Iles, A. E., M.B., B.S. Lond., F.R.C.S. (C.).
Chambers, E. R., F.R.C.S.E., D.O.M.S. (C.).
Garden, R. R., M.A., M.B., Ch.B. Aberd., D.P.H. (R.).

Pathology v. also Pub. Health
Hall, I. W., M.D., Ch.B. Manc. Prof.

Path. and Bacteriology
Todd, A. T., O.B.E., M.D. Edin. (C.) in Med.
Hadfield, G., M.D., B.S. Lond. Demr.

Pharmacology and Therap.
Neild, Newman, M.B., Ch.B. Vict. (also (C.) in Med.) Lectr.*

Pharmacy (Practical)
Taylor, A. L., M.P.S. (R.).
Thomas, Wm., M.P.S. (R.).

Physio-Therapy [(R.).
Christofferson, P. E., M.B., Ch.B.

Public Health
Davies, D. S., M.D. Lond., LL.D., D.P.H. Lectr.*

(C.)=Clinical Lectr. (R.)=Recognized teacher. * Head of Dept.
† Director of Clinical Studies.

Heaven, J. C., M.R.C.S., D.P.H. Lectr.
Fraser, A. D., M.A., B.Sc., M.B., Ch.B. Glas., D.P.H. Demr. in Path. and P.H.
Askins, R. A., M.D. Dub , D.P.H. Camb. Lectr. (School Hyg.).
Faill, C. J. C., F.R.C.P. Edin. Demr.
Radio-Therapy [(C.).
Mayes, F. J. A., M.R.C.S., L.R.C.P.
Skiagraphy [(C.).
Bergin, F. G., M.R.C.S., L.R.C.P.
Surgery
Groves, E. W. H., M.D., M.S., B.Sc. Lond., F.R.C.S. Prof.†
Firth, J. L., M.D., M.S. Lond., F.R.C.S. (C.).
Carwardine, T., M.B., M.S. Lond., F.R.C.S. (C.).
Chitty, H., M.B., M.S. Lond., F.R.C.S. Sr. Tutor (C.).
Walters, C. F., F.R.C.S. (C.).
Moore, C. A., M.S., M.B. Lond., Ch.M., F.R.C.S. (C.).
Short, A. R., B.Sc., M.D., B.S. Lond., F.R.C.S. (C.).
Wood, D., F.R.C.S. (C.).
Adams, A. W., M.B., M.S. Lond., F.R.C.S. (C.).
Tasker, D. G. C., M.B., M.S. Lond., B.Sc., F.R.C.S.
Lectr. to *Dental Students* (C.).

Jr. Tutors :
Jackman, W. A., M.B., Ch.B. (R.).
Duerden, J. R., M.B., Ch.B. (R.).

Dental Science

Dental Mechanics
Wing, J. C., L.D.S. Lectr.*
Dental Surgery, v. also Chem. and Surg.
Claremont, L. E., L.D.S., M.R.C.S. L.R.C.P. Lectr. (C.).*
Nichols, F. C., M.B., Ch.B., L.D.S. (also in D. Anat.) Lectr. & Demr. (C.).
Kettlewell, N. H., L.D.S. Tutor.
Rigg, S. K., L.D.S. Tutor.
Fawn, G. F., B.D S. Tutor.
Lennox, W. J., B.D.S. Tutor.

Engineering

(In the Technical College of the Society of Merchant Venturers)

Applied Chemistry
..... Prof.
Andrews, W. A., B.Sc. Birm., A.I.C. Lectr.
Automobile Engineering
Morgan, W., B.Sc., M.I.A.E. Prof.
Civil Engineering
Ferrier, R. M., M.Sc. Glas , M.I.C.E., M.I.Mech.E. Prof.
Francis, W. E., B.Sc. Wales. Lectr.
Drawing
Baker, J. W. Instr.
Mountney, C. F., A.M.I.Mech.E. Instr.
Engineering Comml. Subjects
Griffin, A. Lectr.
Electrical Engineering
Robertson, D., D.Sc. Glas., M.I.E.E. Prof.
Holmes, S. Lectr.
Mechanical and Mining Engineering
Robertson, A., D.Sc. Edin. Prof.
Watson, F. R. B., B.Sc. Edin. Lectr. (Mech. E.).
Stephens, G. A., B.Sc. Asst. Lectr. (Mech. E.).
French and German for Engin. Students
Shepherd, Dorothy B. Asst. Lectr.

University Extension

Acting Director of Extra-mural studies—Nicholson, J. H., M.A. (v. Educn.).
Extra-mural Lecturers : 33 members of the staff, including 11 for Tutorial Classes and 3 for Preparatory Classes.

(C.)=Clinical Lectr. (R.)=Recognized teacher. * Head of Dept.
† Director of Clinical Studies.

GENERAL INFORMATION

University College, Bristol, founded in 1876, was dissolved in 1909 on the incorporation by Royal Charter of the Univ. of Bristol. The main buildings, including a large extension recently opened which cost £500,000, a new building for the accommodation of the Physics department (cost £200,000), and other projected additions, when complete, will cover a site of 16 acres near the centre of the city on high ground adjoining residential districts. The Municipal Museum and Art Gallery adjoin.

The TECHNICAL COLLEGE OF THE SOCIETY OF MERCHANT VENTURERS provides accommodation for and maintains the Faculty of Engineering of the University. Dean of the Faculty—Prof. Andrew Robertson, D.Sc.

LIBRARIES, 61,000 vols. LABORATORIES: Scientific, Medical, and Engineering, all equipped for purposes of research. Agri-Horticultural station at Long Ashton with Expl. fruit plantations 268 acres devoted to research in fruit-culture, cider-making, plant diseases and their treatment, etc. Fruit and vegetable preservation research station at Campden, Glos., controlled by the Univ. on behalf of the Ministry of Agr., for instruction and experimentation on a semi-commercial scale. Hospitals available for clinical study, 2 General (618 beds), Children and Women (109), Eye (40), in all 767 beds.

FACULTIES. Arts, Science, Medicine, Engineering. Deans: Prof. Dobson (Classics), Prof. Tyndall (Physics), Prof. Fawcett (Anatomy), Prof. A. Robertson.

Special Departments. Education (places for 180 men and 180 women students); Agriculture and Horticulture; Pathological Laboratory (for investigation of epidemic and other outbreaks, examination of waters and foods, and routine diagnostic work required by medical practitioners).

MATRICULATION. In common with all other English Univs., Bristol holds School and Higher School Certificate Examns., at which candidates may qualify for matriculation. It holds no separate matriculation examn. See also Appendix XXI.

DEGREE COURSES. B.A., B.Sc., B.Sc. in Engineering—3 yrs., including at least 2 in the Univ.; Honours in Arts and Pure Science—4 yrs., except for those who enter with Higher School Certif.; on an evening class curriculum—6 yrs. (Engineering 5 yrs.); by research in case of a graduate of another Univ.—2 yrs.; "Sandwich" Scheme of Training for Engineers, including 30 mos. in works—5 yrs.; M.B., Ch.B.—5 yrs., after passing a Prelim. Science examn. in Chem. and Physics; B.D.S.—5 yrs., including at least 3 in the Univ.; B.Agr.—5 yrs.

Instruction given in Theological subjects in the Associated Colleges to undergraduates of the Univ. by the Principal or teachers mentioned above is, for the purpose of the B.A. degree, deemed to be given in and by the Univ.

Post-graduation medical studies are under the direction of the Prof. of Pathology, who arranges for weekly afternoon demonstrations and discussions in April and May. Fee for the course, 1 guinea.

HIGHER DEGREES. M.A., D.Litt.; M.Sc., D.Sc. (in Pure Sc. or Engineering); Ch.M., M.D.; Ph.D. (see p. 17). Graduates of other Univs. are placed practically on the same footing as graduates of Bristol as far as regards facilities for proceeding to all these except the Medical Degrees. Candidates who graduate with Honours in Science may take the M.Sc. one yr. later. Otherwise the Mastership is not granted within 2 yrs. after graduating. The M.D. may be taken 2 yrs. after graduating in Med., the D.Litt. 4 yrs. after the M.A., and the D.Sc. 4 yrs. (3, if devoted to original work in the Univ.) after the M.Sc.

DIPLOMAS. Education (post-graduate) 1 yr., L.D.S. 4 yrs., D.P.H. (for fully registered medical practitioners of 2 yrs'. standing), 9 months, D.V.S.M. (for M.R.C.V.S. of 1 yr.'s standing), Engineering 3 yrs. (or evening classes 5 yrs.).

CERTIFICATES. Testamur in Educn., 1 yr.; Continuation School Teachers' Certif., 1 yr.; Testamur in Social Study, 2 or (Higher Testamur) 3 yrs.; Engineering Apprentices, 2 yrs.

FEES. Matricn., 3 gs.; Registration, £1 : 10s.; Tuition, annual, B.A., 24 (Theol. students, 20½) gs.; B.Sc., 30 gs.; B.Sc. in Engin., 40 gs. (Lab. practice alone, 4 gs. per term for one day a week); M.B., Ch.B., entire curriculum, 205 gs.; B.D.S., including mech. lab. and hospl. practice, 215 gs.; Testamur in Social Study, 2 yrs., 27 gs.; Degree examns. (including Graduation), B.A. or B.Sc., 9½ gs.; M.D., 24 gs.; M.D.S., 24 gs.; M.A. and M.Sc., 9½ gs.; Ph.D., 13 gs. Guild of Undergrads., £1 : 15s.; Univ. Union, £1 : 5s. per annum.

RESEARCH. The Colston Research Society devotes annually about £400 to the promotion of Research in the Univ. It offers, preferably to Bristol graduates, fellowships of £150 each, the money being provided by donors, who are allowed to determine the subject of the research and, subject to the approval of the Board of the Faculty, to nominate the holder. The donor has a right of access to the research work and to receive the result of it 12 months prior to publication.

SCHOLARSHIPS FOR GRADUATES. £160 for research in Engin.; £45 and £31 (women only), 46 gs. (men only), for post-graduate course; £52 for Chemical Metall. research; £7 for study in English Lit.

RESIDENCE. Mortimer House and Canynge Hall for men—from £75 and £67 : 10s. p.a.; Clifton Hill House and 4 other residences for women students —from 60 gs. p.a.

For FORMER STUDENTS there is an Association of Alumni.

PUBLICATIONS. *Calendar*; Faculty prospectuses issued in June; annual report of Council; Students' Mag. *Nonesuch*, 9d.

THE YEAR 1924–25

NEW DEPARTMENT. The Department of Geography, hitherto attached to the Department of Geology, has been made independent. NEW POSTS: Readers in Mathematical Physics and in German; Asst. Lectrs. in English and in Geography; Advisor in Agric. Economics; Asst. Agric. Chemist; Practical Pomologist.

INTERCHANGE OF LECTURES between the departments of English of Bristol and Reading.

RESIGNATIONS. Prof. C. A. Morton, A. Barbara Dale, A. Smevoorde, C. Ord, Miss Matravers, G. W. Elkington. DEATH: Prof. W. Swayne.

OTHER IMPORTANT OCCURRENCES. Opening of new buildings by H.M. The King, June 9, 1925.

HONORARY DEGREES. *LL.D.*—The Bishops of Bath and Wells and of Bristol, Sir George Oatley, Sir Humphrey Rolleston, Sir Berkeley Moynihan. *D.Litt.*—Sir W. Henry Hadow, P. Napier Miles, J. St. Loe Strachey, Thomas Hardy. *D.Sc.*—Lord Bledisloe, Sir Richard Gregory, Sir John Parsons.

STUDENTS. Full-time, preparing for first degree, 755 (including women—243), graduates, 81 (women—33); total full-time, 895 (w.—316). Occasional, 61 (w.—45). Pre-matriculation, 59 (w.—40). Tutorial Class students, 297; preparatory, 104. DEGREES OBTAINED: B.A., 51 (w.—33); B.Sc., 40 (w.—17); M.B., Ch.B., 33 (w.—11); B.Sc.Eng., 21; Ph.D., 5; M.A., 4 (w.—1); M.Sc., 5 (w.—1); D.Sc.Eng., 1; M.D., 1.

21 EXTENSION LECTURES were given in the University area under the Joint Extension Board of the Univ. of Bristol, Univ. Colleges, Southampton, and Exeter. 5 courses of Public Evening Lectures and 4 Saturday Morning Classes for Teachers were held in the Univ. A Summer School, held in one of the Halls of Residence, was organized by the Joint Tutorial Classes Committee. The Art Lectures Committee of the Univ. arranged a course of 6 lectures. Some 300 voluntary lectures were given in addition by members of Univ. Staff.

UNIVERSITY OF CAMBRIDGE

CHANCELLOR—Rt. Hon. EARL OF BALFOUR, K.G., O.M., M.A., Hon. LL.D. Trin.

VICE-CHANCELLOR—Prof. A. C. SEWARD, Sc.D., Master of Downing College.

HIGH STEWARD—His Grace the DUKE OF DEVONSHIRE, K.G., G.C.M.G., G.C.V.O., M.A., Hon. LL.D. Trin.

DEPUTY HIGH STEWARD—Rt. Hon. J. F. P. RAWLINSON, LL.M., Hon. LL.D. Trin., K.C., M.P.

REPRESENTATIVES IN PARLIAMENT—Rt. Hon. J. F. P. RAWLINSON, LL.M., Hon. LL.D. Trin., K.C.; Sir GEOFFREY BUTLER, K.B.E., M.A. Corp.

PROCTORS—J. W. HUNKIN, B.D. Cai.; E. J. PASSANT, M.A. Sid.

PUBLIC ORATOR—T. R. GLOVER, M.A. Joh.

REGISTRARY—E. HARRISON, M.A. Trin.

ASSISTANT REGISTRARY—R. E. PRIESTLEY, M.A. Cla.

LIBRARIAN—A. F. SCHOLFIELD, M.A., King's.

HEADS OF COLLEGES

CHRIST'S	*Master*	Sir A. E. SHIPLEY, G.B.E., Sc.D.
CLARE	,,	W. L. MOLLISON, LL.D.
CORPUS CHRISTI	,,	E. C. PEARCE, D.D.
DOWNING	,,	Prof. A. C. SEWARD, Sc.D.
EMMANUEL	,,	P. GILES, Litt.D.
GONVILLE AND CAIUS	,,	Sir H. K. ANDERSON, M.D.
JESUS	,,	A. GRAY, M.A.
KING'S	*Provost*	Sir W. DURNFORD, G.B.E., LL.D.
MAGDALENE	*Master*	A. B. RAMSAY, M.A.
PEMBROKE	,,	W. S. HADLEY, LL.D.
PETERHOUSE	,,	Lord CHALMERS OF NORTHAM, P.C., G.C.B., M.A., LL.D.
QUEENS'	*President*	T. C. FITZPATRICK, D.D.
ST. CATHARINE'S	*Master*	Rt. Rev. Bishop T. W. DRURY, D.D.
ST. JOHN'S	,,	Sir R. F. SCOTT, M.A.
SIDNEY SUSSEX	,,	G. A. WEEKES, M.A.
TRINITY	,,	Sir J. J. THOMSON, O.M., M.A., Hon. Sc.D.

TRINITY HALL	*Master*	H. BOND, LL.D.
SELWYN (Public Hostel)	,,	J. O. F. MURRAY, D.D.
FITZWILLIAM HOUSE (Non-Collegiate Students)	*Censor*	W. S. THATCHER, M.A.

RECOGNIZED COLLEGES FOR WOMEN

GIRTON	*Mistress*	Miss E. H. MAJOR, M.A. Dub.
NEWNHAM	*Principal*	Miss J. P. STRACHEY, M.A. Dub.

PROFESSORS, LECTURERS, ETC.

Agriculture, v. also Animal, Estate Man., Forestry
Wood, T. B., C.B.E., M.A. Cai. Drapers Prof.
..... Reader.
..... Gilbey Lectr.
Amos, A., M.A., Down. Lectr.
Barber, C. A., Sc.D. Chr. Lectr. in Tropical A.

Agric. Botany [Prof.
Biffen, Sir Rowland H., M.A. Cath.

Agric. Physiology [Reader.
Marshall, F. H. A., Sc.D. Chr.

Anatomy, v. also Zool.
Wilson, J. T., M.A. Joh. Prof.
Duckworth, W. L. H., M.D., Sc.D. Jes. (Human A.) Reader.
Shearer, C., Sc.D. Cla. (Embryology) Lectr.
Appleton, A. B., M.D. Down. Senr. Demr.
Reid, D. G., M.A. Trin. Junr. Demr.
Hopkinson, A., M.A., M.B., B.Chir. Emm. Junr. Demr.
Pennell, V. C., M.A., M.B., B.Chir. Pemb. Addl. Demr.

Anglo-Saxon
Chadwick, H. M., M.A. Clare Elrington and Bosworth Prof.

Animal Pathology
Buxton, J. B., M.A. Prof.

Anthropology, v. Eth.

Arabic, v. Oriental

Archæology, v. also Class., Paleo.
Ridgeway, Sir Wm., Sc.D. Cai. Disney Prof.

Architecture, School of [Master.
Fyfe, T., M.A. Pemb., F.R.I.B.A.
Tomlinson, H., B.A. Chr. Asst.
Lyon, T. H., M.A. Corp. Dir. of Design.
Hughes, H. C., M.A. Pet., A.R.I.B.A. Lectr.

Art [Slade Prof. of Fine Art.
Prior, E. S., M.A. Cai.

Astronomy [Plumian Prof.
Eddington, A. S., M.A. Trin.
Smart, W. M., M.A. Trin. Adams Astronomer.

Astron. & Geom. [Lowndean Prof.
Baker, H. F., Sc.D. Joh.

Astrophysics, v. also Meteor.
Newall, H. F., M.A. Trin. (Dir. of Solar Phys. Obs.) Prof.
Carroll, J. A., M.A. Sid. Lectr. & Asst. Dir.
.....
Obs. in Meteorological Phys.
Baxandall, F. E., A.R.C.Sc. 1st Sen. Solar Physics Observer.
Butler, C. P., A.R.C.Sc. 2nd Sen. Solar Physics Observer.
Moss, W. Junr. Solar Phys. Obs.

Bibliography [Sandars Reader.
Esdaile, A. J. K., M.A. Magd.

Bio-Chemistry Sir W. Dunn Prof.
Hopkins, Sir F. G., M.A. Trin.

..... Sir W. Dunn Reader.
Hele, T. S., M.D. Emm. Lectr.
Roughton, F. J. W, Ph.D. Trin. Lectr.
Dixon, M., Ph.D. Emm. Senr. Demr.

Biology [Quick Prof.
Nuttall, G. H. F., Sc.D. Magd. (Dir. of Molteno Inst. of *Parasitology*)
Keilin, D., M.A. Magd. Lectr. (*Parasitology*) and Asst.
Brindley, H. H., M.A. Joh. (Elem. B. for med. students) Demr.

Botany, v. also Agric.
Seward, A. C., Sc.D. Down. Prof.
Blackman, F. F., M.A. Joh. Reader.
Thomas, H. H., M.A. Down Lectr.
Brooks, F. T., M.A. Emm. Lectr.
Wadham, S. M., M.A. Chr. Senr. Demr.
Godwin, H., B.A. Cla. Junr. Demr.
Briggs, G. E., M.A. Joh. (Plant Physiol.) Demr.

Chemistry, v. also Bio- and Phys. C. and Med. (Path.)
Pope, Sir Wm. J., K.B.E., M.A. Sid. Prof.
Mann, F. G., Ph.D. Down. Asst. to Prof.
McCombie, H., M.A. King's Lectr. and Demr.
Dootson, F. W., M.A. Trin. H. Lectr. and Demr.
Palmer, W. G., M.A. Joh. † Demr.
Berry, A. J., M.A. Down. † Demr.

Chemistry, Organic
Mills, W. H., M.A. Jes. Lectr.

Chem. and Phys. for Hygiene, etc.
Purvis, J. E., M.A. Corp. Lectr.

Classical Archæology
Cook, A. B., M.A. Qu. Reader.

Classics, Epigraphy, etc.
Campbell, S. G., M.A. Chr. Lectr.
Pearson, A. C., Litt D. Trin. (Greek) Reg Prof.
Housman, A. E., M.A. Trin. (Latin) Kennedy Prof.
Ridgeway, Prof. Sir Wm., Sc D Cai. (v. Arch) Brereton Reader.

Crystallography, v. Mineralogy

Divinity, v. also Orient. Langs., Religion [Ely Prof.
Brooke, A. E., D.D. King's
Barnes, W. E., D.D. Pet. Hulsean Prof.
Bethune-Baker, J. F., D.D. Pemb. Lady Margaret's Prof.
Burkitt, F. C., D.D. Trin. Norrisian Prof.
Nairne, A., D.D. Jes. Reg. Prof.
Whitney, J. P., D.D. Emm. (Eccles. Hist.) Dixie Prof.
..... (Past. Theol.) Lectr.
Inge, Very Rev. W. R., C.V.O., D.D. King's Hulsean Lectr.

Economics, v. also Geog., Geol., Pol. Econ. [Girdlers' Lectr.
Lavington, F., M.A. Emm.
Shove, G. F., M.A. King's Lectr.
Robertson, D. H., M.A. Trin. Lectr.

Education
Fox, C., M.A. Chr. Lectr.*

Asst. Lectrs.:
Williamson, R. S., M.A. Chr.
Meldrum, R., M.A. Joh.

Engineering, v. *infra*

English, v. also Anglo-Saxon
Quiller-Couch, Sir A. T., M.A. Jes. K. Ed. VII. Prof. of E. Lit.
Coulton, G. G., M.A. Joh. Lectr.

Estate Management [Reader.
Smith, F. B., C.M.G., M.A. Down.

Ethnology
Haddon, A. C., Sc.D. Chr. Reader.

* Apptd. by Teachers' Training Syndicate.
† Recognized teacher for medical students.

Forestry
Dawson, W., M.A. Cai. Reader.
..... Lectr.
Cox, H. A., M.A. Gurney Lectr.

French [Drapers Prof.
Prior, O. H. P., M.A. Joh.
Stewart, H. F., D.D. Trin. Reader.

Genetics [Arthur Balfour Prof.
Punnett, R. C., M.A. Cai.

Geodesy
Lenox-Conyngham, Col. Sir G. P., M.A. Trin. Reader.

Geography, v. also Surv.
Lake, P., M.A. Joh. Reader.

Geog., Historical and Econ.
Stanners, R. W., M.A. Cai. Lectr.

Geology, v. also Mineral., Palæozool., Petrol.
Marr, J. E., Sc.D. Joh. Woodwardian Prof.
King, W. B. R., O.B.E., M.A. Magd. Asst.
Nicholas, T. C., O.B.E., M.A. Trin. Demr.
Rastall, R. H., Sc.D. Chr. (Econ. G.) Lectr.

German [Schröder Prof.
Breul, K., Litt.D. King's
Bennett, E. K., M.A. Cai. Lectr.

Hebrew, v. Oriental

History, Ancient
Adcock, F. E., M.A. King's Prof.
Glover, T. R., M.A. Joh. Lectr.

History, Eccl., v. Div.

History, Indian [Lectr.*
Gaskoin, C. J. B., M.A. Jes.

History, Modern [Reg. Prof.
Bury, J. B., M.A. King's
Temperley, H. W. V., O.B.E., Litt.D. Pet. Reader.

History, Naval
Rose, J. H., Litt.D. Chr. Vere Harmsworth Prof.

Hygiene, v. Med.

Italian
Okey, T., M.A. Cai. Prof.
Pettoello, Signor D., Dr. Phil. Torino Teacher.†

Law [Downing Prof.
Hazeltine, H. D., Litt.D. Down.

Law, Civil
Buckland, W. W., M.A., LL.D. Cai. Reg. Prof.

Law, English [Reader.
Hollond, H. A., O.B.E., M.A. Trin.

Law, Indian
Macleod, R. H., M.A. Cai. Lectr.*

Law, Internat.
Higgins, A. Pearce, C.B.E., LL.D. Down., K.C. Whewell Prof.

Literature
..... Leslie Stephen Lectr.

Logic, v. Philos.

Mathematics
Larmor, Sir Joseph, M.A., Hon. Sc.D. Joh. Lucasian Prof.
Hobson, E. W., Sc.D. Chr. (Pure M.) Sadleirian Prof.
Littlewood, J. E., M.A. Trin. Cayley Lectr.
Berry, A., M.A. King's Lectr.
Bromwich, T. J. I'A., Sc.D. Joh. Lectr.
Fowler, R. H., M.A. Trin. Lectr.
Harrison, W. J., M.A. Clare Lectr.
Herman, R. A., M.A. Trin. Lectr.
Lamb, H., M.A., Hon. Sc.D. Trin. Rayleigh and Rouse Ball Lectr.

Medicine and Surgery, v. *infra*

Metallurgy [Goldsmiths' Reader.
Heycock, C. T., M.A. King's

Meteorology, Electrical
..... Reader.

Military Subjects
Costello, Br.-Gen. E., V.C., C.M.G., D.S.O. Director of Studies.‡

* Apptd. by Board of I.C.S. Studies.
† Apptd. by Spl. Board for Med. and Mod. Langs.
‡ Apptd. by Board of Military Studies.

Mineralogy
Lewis, W. J., M.A. Trin. Prof.
Hutchinson, A., O.B.E., M.A. Pemb. Lectr. (Crystallography) and Demr.

Music
Wood, C., Mus.D. Cai. Prof.
Rootham, C. B., Mus.D. Joh (Harmony and Counterpoint) Lectr.

Oriental Langs., v. *infra*

Palæography, v. also Bibliog.
Minns, E. H., Litt.D. Pemb. Lectr.

Palæozoology
Woods, H., M.A. Joh. Lectr.

Parasitology, v. Biol.

Petrology
Harker, A., M.A. Joh. Reader.
Tilley, C. E., Ph.D. Emm. Demr.

Philology, Comparative
Giles, P., Litt.D. Emm. Reader.

Philosophy, Mental, and Logic
Moore, G. E., Litt.D. Trin. Prof.
Johnson, W. E., M.A. King's (Moral Sci.) Sidgwick Lectr.

Philos., Moral, v. also Religion
Sorley, W. R., Litt.D. King's Knightbridge Prof.

Philos., Natural
Wilson, C. T. R., M.A. Sid., F.R.S. Jacksonian Prof.
..... Demr.

Physical Chem.
Lowry, T. M., C.B.E., M.A. Trin. H. Prof.
Rideal, E. K., M.A. Trin. H. H. O. Jones Lectr.

Physics, v. also Chem., Philos.
Rutherford, Sir Ernest, O.M., M.A. Trin. Cavendish Prof. of Expl. P.
Thomson, Sir J. J., O.M., M.A., Hon. Sc.D. Trin. Prof.
Searle, G. F. C., Sc.D. Pet. Lectr. & Demr.
Wood, A., M.A. Emm. Lectr.
Thirkill, H., M.A. Clare Demr.
Bedford, T. G., M.A. Sid. Addl. Demr.*
Ellis, C. D., Ph.D. Trin. Asst. Demr.
Blackett, P. M. S., M.A. King's Asst. Demr.
Whetham, W. C. D., M.A. Trin.*
Sleeman, C. M., M.A. Qu.*
Chadwick, J., Ph.D. Cai. Asst. Dir. of Radioactive research
Kapitza, P., Ph.D. Trin. Asst. Dir. of Magnetic Research.

Physiology, v. also Agric.
Barcroft, J., C.B.E., M.A. King's Prof.
..... Reader.
Hardy, Sir Wm. B., M.A. Cai. Lectr.
Shore, L. E., M.D. Joh. Lectr.
Roberts, Ff., M.D. Clare Junr. Demr.
Parsons, T. R., M.A. Sid. Addl. Demr.
Adrian, E. D., M.D. Trin. Lectr. in Advanced P.

Physiol. of the Senses
Hartridge, H., M.D., Sc.D. King's (also Senr. Demr. in P.) Lectr.

Political Economy, v. also Econ.
Pigou, A. C., M.A. King's Prof.

Portuguese, v. Spanish

Psychology, Exper., v. also Med.-Psych.
Bartlett, F. C., M.A. Joh. (Dir. of the Psych. Lab.) Reader.
Banister, H., M.Sc. Joh. Demr.

Religion, Philosophy of
Widgery, A. G., M.A. Cath. Lectr.

Romance
Braunholtz, E. G. W., M.A. King's [Reader.

* Recognized teacher for medical students.

Russian
Goudy, A. P., M.A. Clare Lectr.

Sanskrit, v. Oriental

Spanish [Reader.
Kirkpatrick, F. A., M.A. Trin.
Herrero, Don M. Teacher.†
Pereira, Don F. de Arteaga, M.A. Ox. Norman Maccoll Lectr. (S. and Portuguese).

Statistics [Lectr.
Yule, G. Udny, C.B.E., M.A. Joh.

Surveying and Cartography
Debenham, F., O.B.E., M.A. Cai. R.G.S. Lectr.

Theology, v. Div.

Zoology, v. also Animal, Med. Entom., Palæoz.
Gardiner, J. S., M.A. Cai. Prof.
Borradaile, L. A., Sc.D. Selw. Lectr.
Balfour-Browne, F., M.A. Cai. Lectr.
Potts, F. A., M.A. Trin. H. Lectr.
Gadow, H., M.A. King's (Morph. of Vertebrates) Reader.
Saunders, J. T., M.A. Chr. (Animal Morph) Demr.
Gray, J., M.A. King's Demr. (Comp. Anat.).

Engineering

Aeronautical Engineering
Jones, B. M., M.A. Emm. F. Mond Prof.

Electrical Engineering [Reader
Lamb, C. G., M.A., Sc.D.

Mechanism and Appl. Mechanics
Inglis, C. E., O.B.E., M.A. King's Prof.
Peake, A. H., M.A. Joh. Senr. Demr.
Peel, T., M.A. Magd. Demr.
Womersley, W. D., M.A. Emm. Demr.

Mechanical Engineering
Landon, J. W., M.A. Cla. Lectr.

Thermodynamics
Lees, S., M.A. Joh. Hopkinson Lectr.

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Hygiene, v. Prev. Med., Chem.

Medical Chemistry
Cole, S. W., M.A. Trin. Lectr.

Medical Entomology
Warburton, C., M.A. Chr. Demr.

Medical Jurisprudence
..... Lectr.

Medical Radiology & Electrology
Scales, F. Shillington, M.D. Jes. Lectr.
Stead, G., M.A. Cla. (Physics as applied to M.R.) Lectr.

Medicine
Bradbury, J. B., M.D. Down. Downing Prof.
Jones, E. Lloyd-, M.D. Down. Demr.
Copeland, A. J., M.A., M.B., B.Chir. Pemb. Asst. to Prof. of Med.

Pathology
Dean, H. R., M.D. Trin. H. Prof.
Cobbett, L., M.D. Trin. Lectr.
Swann, M. B. R., M.D. Cai. Demr.

Pathology, Special
Strangeways, T. S. P., M.A. Joh. Huddersfield Lectr.

Path. Chem.
..... Lectr.

Pharmacology [Reader.
Dixon, W. E., M.A. Down (Assessor to Reg. Prof. Physic)

Physic
Rolleston, Sir Humphry D., Bart., K.C.B., M.D. Joh. Reg. Prof.

Preventive Medicine [Reader.
Graham-Smith, G. S., M.D. Pemb.

† Apptd. by Spl. Board for Med. and Mod. Langs.

Psychopathology [Lectr.
MacCurdy, J. T., M.A. Corp.

Surgery
Roderick, H. B., O.B.E., M.D., M.Chir. Emm. Demr.

Vaccination
..... [Teacher.

Members of Hospl. Staff (not included under above subject-headings) approved as Univ. Teachers: J. Aldren Wright, M.D. Sid.; J. Griffiths, C.M.G., M.D., M.Ch. King's; A. Cooke, M.A. Trin., M.B.; G. S. Haynes, M.D. King's; W. H. Bowen, M.S.; C. H. Budd, M.A. Cla., B.M.

Oriental Languages

Arabic [Sir T. Adams Prof.
‡Browne, E. G., M.A., M.B. Pemb.
Bevan, A. A., M.A. Trin.
Lord Almoner's Prof.
'Affífí Abu'l-'Alá Lectr.*

Aramaic
McLean, N., M.A. Chr. Lectr.

Bengali
Samman, H. F., Emm. Lectr.†

Burmese
Cooke, A. G., B.A. Ox. Lectr.†

Chinese
Giles, H. A., M.A. Trin. Prof.

Hebrew [Reg. Prof.
Kennett, R. H., D.D. Qu.

Hindi, Urdu and, [Lectr.†
Phillott, Lt.-Col. D. C., M.A. Cai

Marathi
Moore, R. A. Leslie, Pet. Lectr.†

Persian [Lectr.
Nicholson, R. A., Litt D. Trin.

Sanskrit
Rapson, E. J., M.A. Joh. Prof.
Rouse, W. H. D., Litt D. Chr. (S. and Pali) Lectr.†

Talmudic
..... Reader.

Tamil
Wyatt, J. L., M.A. Chr. Lectr.†

Telugu
.....

Turkish
Záfir, 'Abdul Qádir Lectr.*

Sir Robert Rede's Lecturer, 1925–26

Rothenstein, W., M.A. (Sheff.), A.R.C.A. (Modern Painting).

University Extension

James Stuart Lectrs.: J. Travis Mills, M.A., and G. P. Bailey, Hon. M A. Lectrs. at Affiliated Local Lectures Centres, apptd. by Board of Extra-Mural Studies: P. M. S. Latham, Sir B. Pares, P. L. Babington, R. F. Rattray, A. C. K. Hayter, A. Hamilton Thompson, R. H. Thouless, I. C. Hannah, S. C. Kaines Smith. 29 other Lectrs., v. p. 62.

* Apptd. by For. Service Students' Committee.
† Apptd. by Board of I.C.S. Studies. ‡ *Ob.* 5.1.26.

THE COLLEGES

[College Lecturers are indicated by the names of subjects in italics.]

CHRIST'S COLLEGE. Founded 1505. Master—Sir Arthur E. Shipley, G.B.E., Sc.D., F.R.S.

Fellows: Campbell, S. G., M.A., *Classics*, Bursar; Downs, B. W., M.A.,

† *Med. and Mod. Langs. and Engl.* ; * Grose, S. W., M.A., Librarian ; Haddon, A. C., Sc.D., F.R.S. (Reader in Ethnol.) ; Hobson, E. W., Sc.D., F.R.S. (Prof. of Pure Maths.) ; * McLean, N., M.A., Prælector, † Orient. Langs., *Hebrew* ; Marshall, F. H. A., Sc.D., F.R.S., † Nat. Sc. and Agric. (Reader in Agric. Physiol.) ; Mercer, J., M.A., F.R.S., *Maths.* ; Rackham, H., M.A., *Classics* ; * Saunders, J. T., M.A., † Nat. Sc. and Agr. ; Valentine-Richards, A. V., M.A., Dean, † *Theol.* ; Wyatt, T. C., O.B.E., M.A., Steward, † *Mech. Sc.* ; Murray, E. G. D., O.B.E., M.A. ; Steel, A. B., B.A. Ox., † Hist. ; Steen, S. W. P., M.A.

Other Lectrs., etc. : Perrett, G. B., M.A., † Hist. ; Rastall, R. H., Sc.D., *Nat. Sc.* ; Shove, G. F., M.A., † Econ. ; Vines, H. W. C., M.A., M.D., † Med. ; Wheatcroft, W. H., M.A., LL.D. Down., † Law.

CLARE COLLEGE. Founded 1326. Master—W. L. Mollison, M.A., LL.D.

Fellows : Chadwick H. M., M.A., Elrington and Bosworth Prof. of Anglo-Saxon ; Forbes, M. D., M.A., *Engl.*, Librarian ; Fulford, H. W., M.A. ; Harrison, W. J., M.B.E., M.A., *Maths.*, Finan. Tutor and Steward ; Landon, J. W., M.B.E., M.A., *Mech.Sc.* ; Nock, A. D., B.A., *Classics* ; Priestley, R. E., M.A., † Agr. ; Roberts, Ffrangcon, M.A., M.D., *Physiol.* ; Telfer, W., M.A., † Theol., Asst. Tutor, Dean, and Prælector ; * Thirkill, H., M.A., *Phys. and Chem.* ; Wardale, J. R., M.A. ; Wilson, G. H. A., O.B.E., M.A., Bursar ; Godwin, H., B.A.

Other Lectrs., etc. : Appleton, A. B., M.A., M.D., † Anat. ; Barker, J. W., M.A., † Spanish ; Brindley, H. H., M.A. Joh., *Biol. and Zool.* ; Brooks, F. T., M.A., † Bot. ; Bullough, E. M., M.A., † German ; Dobb, M. H., B.A., † *Econ.* ; Gaskoin, C. J. B., M.A., † Hist. ; Scarborough, H. A., M.A., † Chemistry ; Stokoe, F. W., M.A., † French ; Thomas, H. D., M.A., † Geology ; Pite, A. B., M.A., Architecture ; Wheatcroft, W. H., M.A., LL.D., † Law.

CORPUS CHRISTI COLLEGE. Founded 1352. Master—E. C. Pearce, D.D. ;

Fellows : † Butler, Sir Geoffrey, K.B.E., M.A., M.P. ; Butler, R. A., B.A., *Mod. Langs., Hist.* ; Clark-Kennedy, A. E., M.A., M.D., † *Med.* ; Goodhart, A. L., M.A., † *Law* ; Hoskyns, Sir E. C., M.A., Libn., † *Theol.*, Dean of Chapel ; Morris, G. G., M.A., Steward and Prælector, † *Classics* ; Pickthorn, K. W. M., M.A., † *Hist.* ; Pollock, C. A. E., M.A., President, Bursar ; Robinson, E. A. G., M.A., Dean of College, *Economics* ; Sanders, T. R. B., B.A., *Mech.Sc.* ; Smyth, C. H. E., B.A. ; *† Spens, W., C.B.E., M.A., *Nat. Sc.* ; Thomson, G. P., M.A.

Other Lectrs., etc. : Momber, R. M. S. T., M.A., † Mod. Langs. ; Petherbridge, F. R., M.A., † Agric. ; Lyon, T. H., M.A., † Archit.

DOWNING COLLEGE. Founded 1800. Master—A. C. Seward, Sc.D., M.A., F.R.S., Prof. of Botany.

Fellows : † Amos, A., M.A., *Agric.* ; † Berry, A. J., M.A., *Chem. and Phys.* ; Bradbury, J. B., M.D., F.R.C.P., Prof. of Med. ; † Harris, D. L., M.A., Librarian Reader in *Law* ; Hazeltine, H. D., Litt.D., Prof. of Laws of England ; Kenny, C. S., LL.D. ; Saunders, J. C., M.A. ; † Thomas, H. Hamshaw, M.B.E., M.A., Dean and Steward, *Bot.* ; *† Widdicombe, J. H., M.A., Prælector, *Physiol.*

Other Lectrs. and Supervisors : Appleton, A. B., M.D., *Human and Comp. Anat.* ; Barker, J. W., M.A., Ph.D., *Mod. Langs.* ; Brown, B. G., M.A., *Hist.* ; Dobb, M. H., B.A., *Econ.* ; Fox, C., M.A., *Mor. Sc.* ; French, C. H., M.A., *Maths.* ; Gray, J., M.A., *Zool.* ; Morris, G. G., M.A., *Class.* ; Portway, D., M.A., *Engin.* ; Smith, F. B., C.M.G., M.A., Bursar ; Wall, J., B.A., *Classics*, Chaplain ; Webb, H. A., M.A. Trin., *Maths.* ; Wheatcroft, W. H., LL.D., *Law* ; Wyatt, A. J., M.A. Chr., *Med. and Mod. Langs.* ; Perry, T. G., M.A., *Physics.*

* Tutor. † Director or Supervisor.

EMMANUEL COLLEGE. Founded 1584. Master — Peter Giles, Litt.D., Reader in Comp. Philol.

Fellows: Allcock, W. B., M.A.; Attenborough, F. L., M.A., † Engl.; Bennett, G. T., O.B.E., Sc.D., F.R.S.; Burnaby, H., M.A., *Divinity*, Dean; Gardner, R., M.A., *Class.*, Bursar; * Greenwood, L. H. G., M.A., Prælector, *Class.*, Mod. Langs., Law, Mor. Sc., etc.; * Hele, T. S., O.B.E., M.A., M.D., *Med., Law*, † Physiol.; Jones, B. M., M.A., A.F.C., Mond Prof. of Aeronautics; Lavington, F., M.A., † Econ.; Line, J., M.A., A.F.C., Steward, † Bot. and Agric.; Steward, G. C., M.A., *Maths.*; Wallace, J. C., M.A., † Mech. Sc.; Welbourne, E., M.A., *Hist.*; Whitney, J. P., D.D., Prof. of Eccl. Hist.; * Wood, A., M.A., *Div., Agric., Nat. Sc.*; * Wood, P. W., M.A., Senior Tutor, Librarian, *Maths., Mech. Sc., Hist.*; Norrish, R. G. W., Ph.D., † *Chem.*

Other Lectrs., etc.: Bennett, H. S., M.A., † English; Brindley, H. H., M.A. Joh., † Biology and Zoology; Bullough, E., M.A. Cai., † Mod. Langs.; Johnson, W. E., M.A. King's, † Mor. Sc.; Naylor, E. W., Mus.D, *Music*; Steers, J. A., B.A., † Geog.; Tomlinson, H., B.A., † Archit.; Woods, H., M.A., F.R.S., Joh., † Geol.; Ziegler, C. H., LL.M., † Law; Hopkinson, A., M.A., M.B., B.Chir., † Anat.

GONVILLE AND CAIUS COLLEGE. Founded 1348. Master—Sir Hugh K. Anderson, M.D., F.R.S.

Fellows: Bennett, E. K., M.A.; † Brooke, Z. N., M.A., *Hist.*; Buckland, W. W., LL.D., Prof. of Civ. Law, President; † Bullough, E., M.A., *Mod. Langs.*, Steward; ‡ Cameron, J. F., M.A., Bursar, *Engin.*; Chadwick, J., Ph.D.; † Cook, S. A., M.A., Litt.D., *Heb. and Syriac, Comp. Study of Religions*; *† Debenham, F., O.B.E., M.A., *Geog.*; Fisher, R. A., M.A.; Fox, H. M., M.A.; † Gallop, E. G., M.A., *Maths.*; Gardiner, J. S., M.A., F.R.S., Prof. of Zool.; † Hardy, Sir Wm. B., M.A., Sec. R.S., *Nat. Sc.*; * Hunkin, J. W., O.B.E., M.A., Dean and Catechist, *Div.*; Lock, C. N. H., M.A.; † McNair, A. D., C.B.E., LL.M., *Law*; Muir, M. M. P., M.A.; Needham, N. J. T. M., M.A.; Okey, T., M.A., Professor of Italian; † Phear, H. W., M.A., *Engineering*; Prior, E. S., A.R.A., M.A., Professor of Fine Art; Punnett, R. C., M.A., F.R.S., Professor of Genetics; Reid, J. S., LL.M., Litt.D., Emeritus Prof. of Anc. Hist.; Ridgeway, Sir Wm., Sc.D., Prof. of Archæol.; *† Scott, J. E., M.A., *Class.*; *† Stratton, F. J. M., M.A., *Maths.*, Senior Tutor; Swann, M. B. R., M.A., M.B., B.Ch., *Med.*; Tunnicliffe, H. E., M.A.; † Vesey, W. T., M.A., *Class.*; Wallis, Rt. Rev. F., M.A., D.D.; † Wood, C., Mus.D., Prof. of Music; Wood, T. B., C.B.E., M.A., F.R.S., Prof. of Agric.

Other Lectrs. and Directors, etc.: Claye, H., M.A., *Agric.*; Chevrillon, P., Lector in French; Oliver, D. T., LL.M. Trin. H., *Law*; Schneider, G. A. S., M.A., Librarian; Sheldon, F. H., M.A., Chaplain; Stanners, R. W., M.A., *Econ.*

JESUS COLLEGE. Founded 1496. Master—A. Gray, M.A.

Fellows: * Abbott, E., M.A., Tutor, *Classics*; Barnes, H., M.A., LL.B., *Law*; † Duckworth, W. L. H., M.D., Sc.D., *Nat. Sc.* (Reader in Human Anat.); Duke, W. H., M.A., Steward, Asst. Tutor, *Classics*; * Elliott, C. A., M.A., Tutor, Librarian, *Hist.*; Foakes-Jackson, F. J., M.A., D.D.; Gardner-Smith, P., M.A., Dean, *Theol.*; Manning, B. L., M.A., Bursar, *Hist.*; Mills, W. H., M.A., F.R.S., Asst. Tutor, *Nat. Sc.*; Nairne, A., M.A., D.D., *Theology*, Regius Professor of Div.; Pars, L. A., M.A., Prælector, *Maths.*; Quiller-Couch, Sir Arthur T., M.A., Prof. of Engl. Lit.; Watt, J. C., M.A.

Other Directors of Studies: Alston, L., M.A. Chr., † *Econ.*; Brittain, F., M.A. Jes., † Engl.; Cohen, J. L., M.A. Fitzwm., † *Econ.*; King, W. B. R.,

* Tutor. † Director or Supervisor.

M.A. Magd., † *Geol.*; Braunholtz, E. G. W., M.A. King's, † *Mod. and Med. Langs.*; Lyon, T. H., M.A. Corp., † *Architecture*; Petherbridge, F. R., M.A. Sid., † *Agric.*; Shove, G. F., M.A. King's, † *Econ.*; Tillyard, E. M. W., O.B.E., M.A. Jes., † *Engl.*; Womersley, W. D., M.A. Emm., † *Mech. Sc.*; Wyatt, A. J., M.A. Chr., † *Mod. and Med. Langs.*

KING'S COLLEGE. Founded 1441. Provost—Sir Walter Durnford, G.B.E., LL.D.

Fellows: Adair, G. S., M.A.; Adcock, F. E., M.A., Prof. of Anc. Hist.; Barcroft, J., M.A., F.R.S., C.B.E., Asst. Tutor, *Nat. Sc.*, Prof. of Physiology; Berry, A., O.B.E., M.A., Asst. Tutor, *Maths.*; Beves, D. H., M.A.; Birch, F. L., M.A., O.B.E., *Hist.*; Braithwaite, R. B., B.A.; Brooke, A. E., D.D., *Div.*, Prof. of Div.; Bury, J. B., M.A., Prof. of Mod. Hist.; Blackett, P. M. S., M.A.; * Clapham, J. H., Litt.D., C.B.E., *Hist.*; Dickinson, G. L., M.A.; Durnford, H. G. E., M.A., Prælector and Bursar; Grant-Ives, C. E., M.A.; Gray, J., M.A., *Nat. Sc.*; Hartridge, H., M.A., M.D., Sc.D.; Heycock, C. T., M.A., F.R.S., *Nat. Sc.* (Reader in Metallurgy); Hollingworth, H., M.A.; Inglis, C. E., M.A., O.B.E., Prof. of Mechanism; Johnson, W. E., M.A.; Keynes, J. M., M.A., C.B., Bursar, *Econ.*; Lubbock, A., M.A.; Lucas, F. L., M.A., Librarian, *Engl.*; Macaulay, W. H., M.A.; McCombie, H., D.S.O., M.A., Asst. Tutor, *Nat. Sc.*; Mann, A. H., Hon. M.A., Mus.D.; Milner-White, E., D.S.O., M.A., Dean and Chaplain; Ord, B., Mus.B., B.A.; Penrose, A. P. D., M.A.; Phillpotts, S. B., M.A.; Pigou, A. C., M.A., Prof. of Pol. Econ.; Ramsey, F. P., B.A., *Maths.*; Reddaway, W. F., M.A., *Hist.*; Richmond, H. W., M.A., F.R.S., *Maths.*; Scholfield, A. F., M.A., Univ. Librarian; Sheppard, J. T., M.B.E., M.A., Asst. Tutor, *Classics*; Sills, H. H., M.A., Asst. Tutor, *Classics*; Sorley, W. R., Litt.D., Prof. of Mor. Philos.; Tilley, A. A., M.A.; Turner, L. B., M.A., Asst. Tutor, *Mech. Sc.*; Walston, Sir Charles, M.A., Litt.D.; Wedd, N., M.A.; Wollaston, A. F. R., M.A., B.Ch., D.S.C.

Other Lectrs., etc.: Carr, F., LL.D., † Law; Shove, G. F., M.A., *Econ.*; Squire, E. A., M.A., Chaplain; Stokoe, F. W., M.A., *Mod. Langs.*

MAGDALENE COLLEGE. Founded 1542. Master—A. B. Ramsay, M.A.

Fellows: Clark, F. H. H., M.A., *Hist., Theol.*, Chaplain and Asst. Steward; Gaselee, S., C.B.E., M.A.; King, W. B. R., O.B.E., M.A., *Nat. Sc.*; Morshead, O. F., M.A., Librarian; Nuttall, G. H. F., Sc.D., F.R.S., Prof. of Biol., † Med.; Peel, T., M.A., Bursar and Steward, *Engin.*; Peskett, A. G., M.A.; * Ramsey, A. S., M.A., President, *Maths.*; Richards, I. A., M.A., *English* and *Moral Sciences*; Salter, F. R., M.A., Dean, *Hist.*; Turner, F. M. C., B.A.; Vernon Jones, V. S., M.A., Asst. Tutor and Prælector, † *Classics.*

Other Directors of Studies, etc.: Adie, R. H., M.A., † Agric.; Petherbridge, F. R., M.A., † Agric.; Vulliamy, E. O., M.A., † Mod. Langs.; Brindley, H. H., M.A., † Biol.; Florence, P. S., M.A., *Econ.*; Winfield, P. H., LL.D., † Law; Foster, W. H., M.A., † Chem.

PEMBROKE COLLEGE. Founded 1347. Master—W. S. Hadley, LL.D. *Classics and Mod. Hist.*

Fellows: Attwater, A. L., Prælector, M.A., *Engl.*; Bethune-Baker, J. F., M.A., D.D., Prof. of Div.; Birtwistle, G., M.A., Assistant Tutor, *Maths.*; ‡ Browne, E. G., M.A., M.B., F.R.C.P., Prof. of Arabic, President; Comber, H. G., M.A., Treasurer (Estates), *Mod. Langs.*; Hutchinson, A., O.B.E., M.A.,

* Tutor. † Director or Supervisor. ‡ *Ob.* 5.1.26.

F.R.S., *Nat. Sc* ; * Lawson, J. C., O.B.E., M.A., *Classics*, Senior Tutor ; McCleland, N. P. K. J. O'N., M.A., Bursar (Home), *Nat. Sc.* ; Minns, E. H., M.A., Litt.D., Librarian, *Russian* ; Pennell, V. C., M.A., M.B., B.Ch., F.R.C.S., Asst Tutor, † Med., *Nat. Sc.* ; Spittle, J. T., O.B.E., M.A., † Mech. Sc., Asst. Tutor, Tutorial Bursar ; Whibley, L., M.A., *Anc. Hist.* ; Wynn, H. E., M.A., Dean, Asst. Tutor, *Hist.*

Other Lectrs., etc. : Dobb, M. H., B.A., † Econ. ; Vulliamy, E. O., M.A., *Mod. Langs.* ; Ziegler, C. H., LL.M., *Law.*

PETERHOUSE OR ST. PETER'S COLLEGE. Founded 1284. Master—Rt. Hon. Lord Chalmers, P.C., G.C.B., M.A., LL.D.

Fellows : Barnes, W. E., D.D. (Hulsean Prof. of Div.) ; Butterfield, H., B.A., Librarian ; Dickson, J. D. H., M.A. ; Francis, E. C., M.A., † *Maths.*, Senior Bursar ; Gillett, C. S., M.A., † *Theol.*, Dean, Chaplain, Junior Bursar and Prælector ; Hallward, B. L., B.A., † *Classics*, Steward ; Lubbock, R., M.A., † *Mech. Sc.*, Asst. Tutor, Tutorial Bursar ; Temperley, H. W. V., Litt.D., O.B.E., Asst. Tutor, † *Hist.* (Reader in Mod. Hist.) ; * Vellacott, P. C., M.A., Senior Tutor, † *Hist.* ; Walker, T. A., M.A., LL.D.

Other Lectrs., etc. : Debenham, F., M.A., † *Geog.* ; Girdlestone, C. M., M.A., † *Mod. and Med. Langs.* ; Guillebaud, C. W., M.A., † *Econ.* ; Holmes, E. G., M.A., † *Med.* ; Hughes, H. C., M.A., *Archit.* ; Scarborough, H. A., M.A., † *Nat. Sc.* ; Willey, B., M.A., † *Engl.* ; Winfield, P. H., LL.D., † *Law* ; Wright, C. W. B., M.A., † *Agric.*

QUEENS' COLLEGE. Founded 1448. President—T. C. Fitzpatrick, D.D.

Fellows : Browne, A. D., M.A., Bursar, † *Mech. Sc.* ; Cook, A. B., M.A., *Classics* (Reader in Class. Archæol.) ; Gray, J. H., M.A., Vice-President and Catechist, *Classics* ; Kennett, R. H., D.D., Prof. of Hebrew ; Laffan, R. G. D., M.A., Chaplain, *Engl. Hist. and Lit.*, † Hist. ; Munro, A., M.A., Bursar and Steward, *Maths.* ; Potts, L. J., B.A., † Engl. ; * Sleeman, C. M., M.A., Senior Tutor, *Nat. Sc.* ; Wood, C. T., M.A., Dean and Chaplain, *Div. and Hebrew.*

Other Directors of Studies, etc. : Momber, R. M. S. T., M.A., † Mod. Langs. ; Carr, F., LL.D., † Law ; Plaistowe, F. G., M.A., Librarian.

ST. CATHARINE'S COLLEGE. Founded 1473. Master—The Rt. Rev. T. W. Drury, D.D., † *Theol.*

Fellows : Biffen, Sir R. H., M.A., F.R.S., Prof. of Agr. Bot. ; * Carr, E. T. S., M.A. ; Chaytor, H. J., M.A., Asst. Tutor, Dean, Librarian, † *Mod. Langs.* ; Jones, W. H. S., Litt.D., Bursar and Steward, † *Class., Anc. Hist.* ; Newman, L. F., M.A., † *Agric.* and Nat. Sc. ; Portway, D., M.A., † *Mech. Sc.* ; * Rushmore, F. M., M.A., Senr. Tutor, President and Prælector, † *Hist.* ; Withers, J. J., C.B.E., M.A. ; Steers, J. A., M.A., Junior Dean, † *Geog.*

Other Lectrs., etc. : Alston, L., M.A., † Econ. ; Carr, F., LL.D., † Law ; Fox, C., M.A., † Mor. Sc. ; Henn, T. R., B.A., † English ; Horrocks, H., B.A., † Maths. ; Hoskyns, Sir E. C., M.A., † Theol. ; Munro, A., M.A., † Maths. ; Naylor, E. W., Mus.D., † Music ; Perrett, G. B., M.A., † Hist. ; Roderick; H. B., M.D., M.Ch., † Med.

ST. JOHN'S COLLEGE (1511). Master—Sir Robert F. Scott, M.A.

Fellows ‡ : Arundell, D. D., M.A., Mus.B. ; Baker, H. F., Sc.D., F.R.S., Prof. of Astron. ; Bartlett, F. C., M.A., † Mor. Sc. ; * Benians, E. A., M.A., † *Hist.* ; Blackman, F. F., M.A., F.R.S. ; Briggs, G. E., M.A., † Botany ; * Charlesworth, M. P., M.A., *Classics* ; Coulton, G. G., M.A. ; Creed, J. M., M.A., Dean, † *Theol.* ; Cunningham, E., M.A., Steward, Tutorial Bursar, † *Maths.* ; Engledow, F. L., M.A., † Agric. ; Evans, I. L., M.A. ; Foxwell, H. S.

* Tutor. † Director or Supervisor. ‡ V. also p. 64.

M.A., † Econ.; Glover, T. R., M.A., *Classics*; Harker, A., M.A., F.R.S.; Hartree, D. R., M.A., † Physics; Hetland, W. E., M.A.; Howard, Sir Henry F., K.C.I.E., C.S.I., Senior Bursar; Jeffreys, H., M.A., *Maths.*; Larmor, Sir Joseph, Hon. Sc.D., F.R.S., M.P., Prof. of *Maths.*; Lees, S., M.A.; MacAlister, Sir Donald, Bart., M.A., M.D.; Marr, J. E., Sc.D., F.R.S., Prof. of Geol.; Newman, M. H. A., M.A.; Palmer, W. G., M.A., † *Chem.*; † Prior, O. H. P., M.A., Prof. of French; Rapson, E. J., M.A., Prof. of *Sansk.*; Raven, E. E., M.A., Chaplain; Rolleston, Sir Humphry D., Bart., K.C.B., M.D., Regius Prof. of *Physics*; Rootham, C. B., Mus.Doc., Organist, † *Music*; Shore, L. E., O.B.E., M.D., Junior Bursar, † Med. and Physiol; * Sikes, E. E., M.A., † *Classics*, President; Stevens, A. J., M.A.; Tanner, J. R., Litt.D., *Hist.*; Ward, J. T., M.A.; Watkins, A. E., M.A.; Webb, R. R., M.A.; White, F. P., M.A., *Maths.*; Wilson, J. T., M.A., Prof. of Anat.; Winfield, P. H., LL.D., † *Law*; * Wordie, J. M., M.A., † Geog.; † Yule, G. U., M.A., *Nat. Sciences*.

Other Lectrs., etc.: Brindley, H. H., M.A., † Biol. and Zool.; Peake, A. H., M.A., † Mech. Sc.; Bennett, H. S., M.A., † Engl.; Girdlestone, C. M., M.A., † Mod. and Med. Langs.; Guillebaud, C. W., M.A., † *Econ.*; Leishman, Sir Wm., K.C.B., K.C.M.G., F.R.C.P., F.R.S., *Physics* (Linacre); Woods, H., M.A., F.R.S., † Geol.; Previté-Orton, C. W., M.A., Prælector and Librarian.

SIDNEY SUSSEX COLLEGE. Founded 1596. Master—G. A. Weekes, M.A.

Fellows: Davenport, A. H., M.A., Bursar, † Mech. Sc.; Green, H. L. H. H., B.A., Research Fellow; Hackforth, R., M.A., *Classics*, Prælector; * Knox-Shaw, T., M.A., ‡ *Maths.*; McNeile, A. H., M.A., D.D.; Mayall, R. H. D., M.A., *Maths.*; Passant, E. J., M.A., *Hist.*, Steward; Pope, Sir Wm. J., K.B.E., M.A., F.R.S., Prof. of Chem.; Robson, H. C., M.A.; Smith, B. T. D., M.A., *Theol.*, Dean; Thacker, C. R. A., M.A., M.D., B.Ch., *Nat. Sc.*, † Biol. and Med.; Wilson, C. T. R., M.A., F.R.S., Jacksonian Prof. of Nat. Philos.

Other Directors of Studies: Mills, W. H., M.A. Jes., Chem.; Petherbridge, F. R., M.A., Agric.; Wheatcroft, W. H., LL.D. Down., Law; Debenham, F., M.A. Cai., Geog.; Lyon, T. H., M.A. Corp., Archit.; Sargant-Florence, P., Economics; Sells, A. L., M.A., D-ès-L., French; Tillyard, E. M. W., M.A. Jes., Engl.; King, W. B. R., M.A. Magd., Geol.; Carrol, J. A., M.A., Physics.

TRINITY COLLEGE. Founded 1546. Master—Sir Joseph J. Thomson, Hon. Sc.D., O.M., F.R.S. (Prof. of Physics).

Fellows: Adrian, E. D., M.A., M.D., F.R.S., Director of Medical Studies, *Nat. Sc.*; Aston, F. W., Sc.D., F.R.S.; Bevan, A. A., M.A., *Oriental Langs.*; Boughey, A. H. F., M.A.; Broad, C. D., Litt.D., *Mor. Sc.*; Burkill, J. C., B.A.; Burnaby, J., M.A., Junr. Bursar, Steward, and Prælector; Butler, J. R. M., O.B.E., M.V.O., M.A., Lecturer in *Hist.*; Capstick, J. W., M.A., O.B.E.; Chadwick, J. A., B.A.; Cherry, T. M., Ph.D.; Cornford, F.M., M.A., *Classics*; de Navarro, J. M., M.A.; Dean, W. R., B.A.; Duff, J. D., M.A.; Duff, P. W., B.A.; * Dykes, F. J., M.A., *Mech. Sciences*; Eddington, A. S., M.A., F.R.S., Prof. of *Astron.*; Ellis, C. D., Ph.D., *Nat. Sc.*; Evennett, H. O., B.A.; Fletcher, Sir Walter M., M.D., Sc.D., K.B.E., F.R.S.; Fowler, R. H., O.B.E., M.A., *Maths.*; Frazer, Sir James G., O.M., Hon. Litt.D., F.R.S., *Anthropology*; Glaisher, J. W. L., Sc.D., F.R.S.; Glazebrook, Sir Richard T., M.A., K.C.B., F.R.S.; Glauert, H., M.A.; † Gow, A. S. F., M.A.; Harrison, E., M.A., *Classics*; Henry, D. C., M.A.; Herman, R. A., M.A.; Hicks, R. D., M.A.; Hollond, H. A., D.S.O., O.B.E., M.A., LL.M., Dean of College, Reader in *Engl. Law*; Hopkins, Sir F. G., M.A., F.R.S., Prof. of Bio-Chem.; Housman, A. E., M.A., Prof. of Latin; Ingham, A. E., B.A.; Innes, H. McL., M.A., Senior

* Tutor. † Director or Supervisor. ‡ Senior Tutor.

Bursar; Kapitza, P., Ph.D.; Kirkpatrick, Very Rev. A. F., D.D.; Kitson-Clark, G. S. R., M.A.; ‡ Langley, J. N., Sc.D., F.R.S., Prof. of Physiol.; * Lapsley, G. T., M.A., *Hist.*; * Laurence, R. V., C.V.O., M.A., *Hist.*; Lennox-Conyngham, Sir Gerald P., M.A., F.R.S., Prælector in Geodesy; Littlewood, J. E., M.A., F.R.S., *Maths.*; Moore, G. E., M.A., Litt.D., Prof. of Mental Philosophy and Logic; Neill, S. C., B.A.; Newall, H. F., M.A., F.R.S., Prof. of Astro-Physics; Nicholas, T. C., O.B.E., M.A., *Nat. Sc.*; Parry, R. St. J., D.D., Vice-Master; Pearson, A. C., Litt.D., Prof. of Greek; Pollard, S., M.A., *Mathematics*; Postgate, J. P., Litt.D.; Proudman, J., M.A.; Pye, D. R., M.A., *Mech. Sc.*; Quastel, J. H., Ph.D.; Ritchie, A. D., M.A.; Robertson, D. H., M.A., *Econ.*; Robertson, D. S., M.A., *Classics*; Roughton, F. J. W., M.A.; Rutherford, Sir Ernest, O.M., M.A., F.R.S., Cavendish Prof. of Experim. Physics; Salt, H. E., LL.B., *Law*; Simpson, F. A., M.A., *Hist.*; † Southwell, R. V., M.A.; Stewart, H. F., D.D., Dean of Chapel, Prælector in French; Struckmeyer, O. K., M.A.; Taylor, G. I., M.A., F.R.S.; Taylor, H. M., M.A., F.R.S.; Tennant, F. R., D.D., *Theol.*; Whetham, W. C. D., M.A., F.R.S.; Whitehead, A. N., Sc.D., F.R.S.; * Winstanley, D. A., M.A., *Hist.*

Other Lectrs., etc.: Eliot, T. S., *Engl. Lit.* (Clark); Adams, H. M., M.A., Librarian; Carlyle, A. J., D.Litt. Ox., *Eccles. Hist.* (Birkbeck); Maurice, Major-Gen. Sir Frederick, K.C.M.G., *Mil. Hist.* (Lees Knowles); Winfield P. H., LL.D., *Law*; Lonsdale, J., *French*; Russell, Hon. Bertrand, M.A., *Philos. of the Sciences* (Tarner).

TRINITY HALL. Founded 1350. Master—H. Bond, LL.D., *Law.*

Fellows: Angus, C. F., M.A., Librarian, Asst. Tutor, † *Classics*; Campbell, the Hon. Ian Malcolm, D.S.O., M.A., Bursar, † *Agric.*; * Chase, G. A., M.A., Vice-Master, Senior Tutor, Dean, and Prælector, *Div.*; Crawley, C. W., B.A., *Hist.*; Dean, H. R., M.D., Prof. of Pathology; Hayes, R. A., M.A., *Engin.*; Oliver, D. T., LL.M., *Law*; Potts, F. A., M.A., Asst. Tutor, *Nat. Sc. and Med.*; Rendell, W. R., M.A.; Rideal, E. K., M.B.E., M.A., † *Chem. and Phys.*

Other Lectrs.: Lee, J. R., M.A., Chaplain, *Hist.*; Turner, J. W. C., M.A., *Law.*

SELWYN COLLEGE PUBLIC HOSTEL. Founded 1882. Master—J. O. F. Murray, D.D.

Fellows: * Borradaile, L. A., Sc.D., Tutor, *Nat. Sc.*, † Med.; * Jordan, W. E., M.A., Tutor and Vice-Master, *Classics, Hist.*; Knott, H. C., M.A., Prælector and Bursar, *Maths.*; * Marsh, F. S., M.A., Tutor and Librarian, *Theol.*; Perrett, G. B., M.A., *Hist.*; Williams, W. N., M.A., LL.B., *Classics*, † Law; Durrant, P. J., B.A., † *Nat. Sc.*; Peacey, J. R., B.A., Dean and Precentor, *Theol.*

Other Lectrs., etc.: Pennell, V. C., M.A., † Anat.; Wood, C., Mus.D., † Music; Wyatt, A. J., M.A., † Med. and Mod. Langs.; Wyatt, T. C., M.A., † Engin.; Ziegler, C. H., M.A., † Law.

NON-COLLEGIATE STUDENTS: FITZWILLIAM HOUSE. Established 1869. Censor—Thatcher, W. S., M.A.: Asst. Censor and Bursar and Chaplain—W. Harvey, M.A.

Directors of Studies: Atkinson, B. F. C., M.A., Classics; Barker, J. W., Ph.D., Med. and Mod. Langs.; Cohen, J. L., M.A., Econ.; Durrant, P. J., M.A., Chem.; Fox, C., M.A., Mor. Sc.; Gaskoin, C. J. B., M.A., Hist.; Girdlestone, C. M., M.A., French; Goudy, A. P., M.A., Med. and Mod. Langs.; Gray, J., M.A., Zool.; Hayes, R. A., M.A., Mech. Sc.; Hughes, H. M., D.D. (Lond.), Theol.; Johnson, E. W., B.D., Theol.; Joseph, C. G., M.A., Geog.;

* Tutor. † Director or Supervisor. ‡ *Ob.* 5.11.25.

King, W. B. R., M.A., Geol.; Munsey, S. W. U., M.A., Agric.; Reddaway, W. F., M.A., Med. and Mod. Langs.; Shepherdson, J. F., M.A., Mus.B., Music; Stead, G., M.A., Physics; Vines, H. W. C., M.A., Med.; Wadham, S. M., M.A., Bot.; Welsh, J. J., M.A., Maths.; Willey, B., M.A., English; Winfield, P. H., LL.D., Law; Wyatt, A. J., M.A., Med. and Mod. Langs.

WOMEN'S COLLEGES recognized by the University:

GIRTON COLLEGE. Founded 1869. Mistress—Miss E. H. Major, M.A. Dublin.

Directors of Studies: F. E. Cave-Browne-Cave, M.A. Dub. (Maths.); J. R. Bacon (Classics); E. M. M. Whetnall, M.A. Lond. (Moral Sc.); M. B. Thomas (Natural Sc.); M. G. Jones, M.A., N.U.I. (Hist. and Law); K. T. Butler (Mod. and Med. Languages); M. Tappan, Ph.D. Col. (Econs.); H. M. R. Murray, M.A. Dub. (English and Philology), Vice-Mistress; Resident Lectr. in Maths.: Mrs. Veitch. Asst. Lectr. in French: Mlle. R. M. Chavannes.

Bursar—Miss E. M. Allen. Secy.—Miss M. Clover, M.A. Dub. Junior Bursar—Miss P. K. Leveson, M.A. Dub. Librarian and Registrar of the Roll—Miss E. S. Fegan, M.A. Dub. Research Fellows—see Appendix XXIV. (i.).

NEWNHAM COLLEGE. Founded 1871. Principal—Miss J. P. Strachey, M.A. Dub.

Tutors—Miss A. B. Dale (Old Hall); Mrs. Palmer (Peile Hall); Miss M. Steele Smith (Clough Hall), Director of Studies in English; Miss E. M. Chrystal, M.A. Edin. (Sidgwick Hall), Junr. Bursar.

Other Lectrs.: L. M. Swain, M. D. Kennedy (Maths.); H. Richardson (Classics); G. L. Elles, D.Sc. Dub. (Geol.); J. M. W. Slater, D.Sc. Lond. (Chem. and Physics); A. M. Cooke, M.A. Manc. (Hist.); E. M. Butler (Mod. Langs.); Anna C. Paues, B.A. Dub., Ph.D. Upsala (English); E. M. Whetnall (Moral Sc.); M. Tappan (Econ.). Bursar—Mrs. Lacy. Registrar of the Roll—E. M. Sharpley.

GENERAL INFORMATION

CONSTITUTION — COLLEGES — MATRICULATION — ADVANCED STANDING, AFFILIATION—INCORPORATION—INDIAN STUDENTS—TERMS—DEGREES ARTS—DIVINITY—LAW—MEDICINE—MUSIC—SC.D., LITT.D.—DIPLOMAS —TRAINING FOR CIVIL SERVICES—MILITARY INSTRUCTION TRAINING OF TEACHERS—TRAINING FOR HOLY ORDERS—RESEARCH STUDENTS—SCHOLARSHIPS — EXPENSES — APPOINTMENTS — WOMEN — LIBRARY — MUSEUMS, ETC.—OBSERVATORY—LOCAL EXAMINATIONS—UNIVERSITY EXTENSION—PUBLICATIONS.

The SENATE, consisting, generally speaking, of all Masters of Arts and Masters of Laws who have retained their membership of the Univ. by the fulfilment of prescribed formalities and payment of proper dues, has full power to legislate for the Univ. subject to the Univ. Statutes, and allows degrees, appoints most of the Univ. officers, and elects the 2 members who represent the Univ. in the House of Commons.

The executive authority of the Univ. rests in theory with the Chancellor, but as he is by custom a non-resident officer, it devolves in practice upon his deputy, the Vice-Chancellor, who is appointed every year from among the Heads of Colleges. With the Vice-Chancellor is associated a Council of 16 members known as the *Council of the Senate*, which is elected under certain restrictions by (practically) the resident part of the Senate—known as the

Electoral Roll. This Council, besides its executive position, has also an important position in respect of legislation, as no Grace can be put to the Senate unless it has first received the sanction of the Council. The Univ. appoints *Syndicates* to administer various departments of Univ. business and *Special Boards of Studies* to superintend Univ. teaching and examns. in the various subjects of study. The system of teaching as a whole is under the supervision of a *General Board of Studies*, on which all the more important subjects of study are represented. All proposals involving the spending of money are submitted by the Council to the *Financial Board.*

The COLLEGES are corporate bodies distinct from the Univ. They possess and manage their own property; they are self-governing and elect their own officers; and for nearly all purposes they are independent of Univ. control. The connexion between them and the Univ., however, is of the most intimate kind. The Univ. is in part supported by contributions from them, and without any formal agreement to that effect the Univ. and the Colls. do as a matter of fact recognize each other's regulations. Nearly all the members of the Univ. belong to the Colls., and all the members of the Colls. belong to the Univ. The work of teaching is divided between the Univ. Profs., Lectrs., etc., and the more numerous body of College Lectrs.

NON-COLLEGIATE STUDENTS reside in licensed lodgings or in "Houses" recognized by the Non-Collegiate Students' Board. Such students may, by becoming members of Fitzwilliam House, obtain opportunities for taking part in communal life (dining in Hall, belonging to athletic clubs, etc.) similar to those enjoyed by members of Colleges.

MATRICULATION is effected by signing in a register. With certain exceptions, only those who have passed the Previous Examination or have obtained exemption therefrom are admitted to Matriculation.

For admission as a member of a Coll. or as a Non-Coll. student application should be made to the proper officer, namely, the Senior Tutor, Christ's, Cai., St. John's; the Tutor, Clare, Cath., Corp., Down., Magd., Pet., Sid.; one of the Tutors, Trin. or Trin. H.; the Provost or Tutor, King's; the President, Queens'; the Bursar, Selwyn; the Master of any of the other Colls.; the Censor, Fitzwilliam House (Non-Coll. students). It is important for those who wish to have rooms in Coll. to apply for admission a long time beforehand.

As regards *Colonial and Foreign students*, see Appendix XXIII.

ADMISSION TO ADVANCED STANDING. I. A graduate with First Class Honours (or equivalent record) * or—provided that he passed, † when qualifying for his degree, in English, 2 other languages, one of which is either Latin or Greek, and Maths., or, if the student is a native of Asia or Africa and not of European descent, in English, in Maths., and in one of: Arabic, Persian-with-Arabic, Chinese, Sanskrit, or Pali—with Second Class Honours (or equivalent record) ‡ of an approved university ‖ at which he has attended classes not less than 3 years, will be accepted as an *Affiliated Student*, and will then be entitled to (1) be exempt from the Previous Examn.; (2) reckon the first term kept by residence as the 2nd, 3rd, or 4th term for the purposes of all provisions respect-

* In U.S.A., generally speaking, graduation in the first sixth of his class with evidence of exceptional ability in some subject.

† A pass before matriculation in the corresponding Part of the Previous Examn. in any of these subjects will be accepted in lieu of passing when qualifying for the degree.

‡ In U.S.A., generally speaking, graduation in the first half of his class.

‖ V. list in Appendix XXIII.

ing the standing of candidates for (*a*) Tripos examns., or for degrees in Law, Med., Surgery, or Music, and (*b*) Degrees other than the ordinary B.A. Degree or Degrees conferred under the regns. for Research Students; (3) secure such a degree in certain circumstances on one part or section of a divided Tripos.

II. Students at an *Affiliated Local Lectures Centre* (at present Exeter, Leicester, Southport, Hull, Newcastle-upon-Tyne, Derby, Sunderland, Scarborough, Plymouth, Stonehouse, Devonport, Norwich, Colchester, Northampton, Portsmouth) will be admitted to Nos. (2) and (3) of the above privileges provided that they have (*a*) attended a series of courses of lectures and classes for 6 terms, extending over such period of years as may be approved by the Syndicate, in one of the following groups: A, Natural, Physical, and Math. Science; B, History, Pol. Econ., Mental Science, Literature, Art; (*b*) attended in each of 2 terms a course of lectures in the other of the groups A, B; (*c*) satisfied the examiners in the examn. held after each course of lectures.

INCORPORATION. Students who before admission as members of this UNIV. have kept terms by *bona fide* residence at Ox. or Dub. are, subject to certain provisos, allowed terms corresponding to those which they have so kept; a graduate of Ox. or Dub. who took a degree or degrees after having duly qualified himself therefor not only by having passed the examns., etc., required, but by having kept his terms by residence in his own Univ., may be admitted on certain conditions to the same degree or degrees in Camb.

INTERCOLLEGIATE INDIAN STUDENTS COMMITTEE: Secy., W. S. Thatcher, M.A., 22 Fitzwilliam St.

TERMS. In order that a term may be counted towards qualifying for a degree, a student must reside in Cambridge (*i.e.* within a circle of 2½ miles' radius from Gt. St. Mary's Church) during three-fourths of the term. Full terms begin; Jan. 15, Apr. 20, Oct. 12, 1926; Jan. 14, Apr. 20, Oct. 11, 1927; end—Mar. 15, June 11, Dec. 10, 1926; Mar. 14, June 11, Dec. 9, 1927.

DEGREES. B.A., M.A., M.Litt., Litt.D., M.Sc., Sc.D.; B.D., D.D.; LL.B., LL.M., LL.D.; M.B. and B.Chir., M.Chir., M.D.; Mus.B., Mus.M., Mus.D.; Ph.D.

ARTS. The qualifications for the B.A. are: (i.) 9 terms' residence; (ii.) passing or being exempted from the *Previous* examn.; (iii.) passing the examns. for the ordinary degree or a Tripos examn. or examns.

Exemption from (i.) to the extent of 3 terms can be obtained by students entitled to the privileges of *affiliation* (v. *supra*).

(ii.) The *Previous* examn. includes Latin or Greek, one other language, Maths., and English. Subject to certain provisos, natives of Asia or Africa who are not of European parentage may substitute papers in Arabic, Chinese, Sansk., or Pali for the Latin papers. For details, see Appendix XXI.

Exemption from (ii.) can be obtained by students who hold certain certifs. granted by various Univs. of the U.K., by the Scotch Education Dept., or by the Ministry of Education, Northern Ireland, or by certain Australasian, S. African, American, and European authorities (v. App. XXIII.); such exemption is also granted to students entitled to the privileges of affiliation.

As regards (iii.), the ordinary B.A. is obtained by qualifying in 5 subjects of which 3 at least must be "principal" and 1 at least must be chosen from each of 2 groups. The principal subjects are—in Group I.: Bible, Church Hist., Engl., Gk., Lat., Fr., Ital., Span., Ger., Rus., Geog., Hist. I., Hist. II., Econ. I., Econ. II., Moral Philos., Psych., Law I., Law II., Educn., Music, Mily. Subjects I., History of Art; in Group II.: Maths., Physics, Chem., Applied Chem., Metal., Bot., Zool., Physiol., Geol., Geog., Engin. I., Engin. II., Mily. Subjects II. There are 4 subsidiary subjects in each group.

Students of *Agriculture* and allied subjects may proceed to the ordinary B.A. by means of certain courses dealing with their scientific and practical sides, and including also prescribed literary training.

The Honours B.A. is obtained by passing in the following Triposes: Anthropol., Classical, Economics, English, Geog., Hist., Law, Maths., Mech. Sciences, Mod. and Med. Langs., Mor. Sc., Nat. Sc., Oriental Langs., Theol.

A Bachelor may be admitted *Inceptor* in Arts at the end of six years from the end of his 1st term, provided that not less than 2 yrs. have elapsed from his *inauguration* (which occurs on Dec. 30 following admission to the title of a degree). The Inceptor is *created* M.A. on June 30 in each year.

DIVINITY. A M.A. or LL.M. proceeds to the B.D. on or after the 11th of June in the 7th year from his *creation*, either (1) by submitting an original dissertation composed by himself in Latin or English on some subject connected with Biblical Criticism, Exegesis, or History, or with the Evidences of Christianity, or with Dogmatic Theology, or with the study of other Religions in relation to the Christian Religion, or with Ecclesiastical History, Literature, or Antiquities, or with the Philosophy of Religion, or (2) by specifying his published works on one or more of these subjects. He is required to satisfy the Degree Committee, either by his Dissertation, etc., or otherwise, that he possesses a competent knowledge of Christian Theology. A B.D. of 5 yrs.' standing proceeds to the D.D. by submitting published works or a printed dissertation on the same subjects as those for the B.D.

LAW. A student who has kept 9 terms and obtained Honours in both parts of the Law Tripos, or Honours in some other Tripos and subsequently Honours in either part of the Law Tripos, is entitled to proceed to the degree of B.A. To qualify for the LL.B. it is necessary to pass the LL.B. examn. after having kept 9 terms and obtained honours in Pt. I. or Pt. II. of the Law Tripos, or passed in either Part at the Honours standard, or taken the degree of B.A. and qualified for practice as a barrister or solicitor in England or Ireland, or as an advocate or law agent in Scotland. A LL.B. may, not less than 6 years after the end of his 1st term, ask leave to submit a dissertation on some branch of Law or of the History or Philosophy of Law, and, if such dissertation is approved, he incepts in Law and in due course becomes LL.M. A LL.M. (as well as holders of certain other degrees) may be admitted LL.D., not less than 8 yrs. after admission to his 1st degree, if he has published one or more original contributions, approved for the purpose, to the advancement of the science or study of Law.

MEDICINE. The qualifications for the M.B. and B.Chir. are: (1.) 9 terms' residence; (ii.) passing (or exemption from) the *Previous* examn. (v. *supra*); (iii.) 5 yrs.' Medical study; (iv.) passing in due order 3 examns. and presenting an approved thesis. Admission to the 2nd M.B. examn. is conditional on proof of diligent attendance on prescribed courses of lectures and practical work. Admission to the 3rd M.B. is conditional on proof of 3 yrs. of hospl. practice, 5 yrs.' Medical study, and diligent attendance on prescribed courses of instruction and practical work. A M.B. in the 9th term after *inauguration* (v. *supra*) and a M.A. in the 12th after *creation* may be admitted M.D. on submission of a thesis or dissertation, but the M.A. must have attended lectures and hospl. practice and passed examns. as required for the M.B. A B.Chir. after 3 yrs. from inauguration may be admitted Inceptor in Surgery and so by creation to the M.Chir. degree. A M.A. may be admitted also if legally qualified to practise Surgery. A candidate for the M.Chir. must either pass the examn. for the degree or be exempted therefrom in consideration of a contribution to the advancement of the Science or Art of Surgery. Addenbrooke's

Hospl., containing 192 beds and large out-patient depts., is available for clinics. Overseas examns. exempting from the 1st M.B.: 1st examn. for B.Sc. in Agr. of Univ. of S. Africa (subject for subject); 1st examn. for medical degrees in Univ. of Adel., Melb., or Syd., or 1st examn. in Science in Physics, Chem., and Biol. in Univ. of Queensland, W. Aust., or Tasm.

Music. The qualifications for the Mus.B. include (i.) 9 terms' residence; (ii.) passing (or exemption from) the *Previous* examn.; (iii.) passing an examn. in two parts whereof the first may not be taken before the 2nd term, nor the 2nd before the 8th term. The Mus.M. may be taken after at least 3 yrs. have elapsed since *inauguration* (v. *supra*) as Mus.B. and after passing the prescribed examn.

Persons not less than thirty years of age who have graduated in some Faculty of the Univ. and given proofs of distinction in musical composition may be candidates for the Mus.D.

The Sc.D. and Litt.D. Any person may be a candidate for either degree who is a M.A., LL.M., or M.Ch. of not less than 5 yrs.' standing or a M.B. of not less than 7. These degrees are granted in consideration of original contributions to the advancement of Science or Learning.

Diplomas. In addition to degrees, which are for the most part conferred only on its own members, the Univ. grants 6 Diplomas which are open to other persons—in Geog., in Psych. Med., in Pub. Health, in Med. Radiology and Electrology, in Hygiene, in Tropical Med. and Hygiene; and 7 which are almost entirely restricted to members of the Univ.—Agric. Sc., Anthrop., Class. Archæol., Education, Forestry, Horticult. Sc., and Oriental Languages, the diplomas in Anthrop. and Orient. Langs. being open to non-members in certain exceptional circumstances only. Among overseas Mental Hospitals recognized for clinical work for the Dip. Psych. Med. are the Pretoria and the Gladesville (Sydney). *Certificates*, open to members of the Univ. only, are conferred in Architecture (open to graduates only) and in certain foreign languages. A *Divinity Testimonium* is granted on proof of diligent attendance at 6 courses of lectures.

The *Joint Coal-mining Diploma* of the Univs. of Cambridge and Birmingham enables Cambridge graduates in Engineering to shorten by one year the period of training at Birmingham otherwise required. It is approved by the Board of Trade.

The Diploma in Anthropology may be obtained after residence for one term only by *Officers of any of the Public Services of the Empire*, not ordinarily resident in the British Isles, having exceptional qualifications.

The Diploma in Hygiene, established in 1921 in response to a communication from the League of Red Cross Societies at Geneva, is intended for *foreigners* who possess a qualification to practise medicine or surgery which, though not registrable in Great Britain, is recognized by the authorities of their own countries. The full course must extend over 9 months. The requirements are similar to those demanded for the English D.P.H. except that no detailed knowledge of English public health laws is required.

The Univ. makes provision for training candidates for the Higher Civil Services; Probationary Vice-Consuls; Indian Civil Service selected candidates; candidates for administrative appointments in Tropical Africa and other branches of the Civil Service and for service under the Govts. of Egypt and the Sudan. To meet the wants of Civil Service candidates a series of lectures supplementary to the courses for regular Tripos candidates has been arranged by the Board of I.C.S. Studies, and by a Committee of Associated Colls. Detailed information may be obtained from the Director of Civil

Service Studies, appointed by this Committee (C. J. B. Gaskoin, M.A., Fitzwilliam House), and from H. A. Roberts, M.A., Univ. Offices, St. Andrew's St., who is Secy. to the Board of I.C.S. Studies, Foreign Service Students' Committee, Appointments Board and Director of Studies for the General Consular Service.

A system of MILITARY INSTRUCTION has also been organized by the Univ. The Board of Milit. Studies (Secy.—Hon. I. M. Campbell, D.S O., Trin. H.) are in direct communication with the War Office and responsible for the nomination of Camb. Univ. candidates for Regular commissions in H.M. Forces. See Appendix I.

The TRAINING OF TEACHERS is under the management of the Teachers Training *Syndicate*, established in 1878 (Secy.—F. E. E. Harvey, M.A.; address—Warkworth House).

Examns. for the Univ.'s *Certificate of Proficiency*, held in June and Dec., are open to students of certain colleges, and to teachers who have had at least a year's experience in an approved Secondary School, if their attainments are satisfactory.

Students of the *University Training College* (Principal—C. Fox, M.A. Chr.; address—Warkworth House) devote their first 3 yrs. to reading for the B.A. degree, the 4th to professional training. Several scholarships and exhibitions are offered to intending schoolmasters who have been Bursars, Student Teachers, or Pupil Teachers.

There is also a Post-graduate Training Coll. for Women. Principal—Miss M. H. Wood, M.A. Lond., Litt.D. Dub., Girton; address—Wollaston Rd.

Candidates are trained for HOLY ORDERS at Ridley Hall, founded in 1879 (Principal—A. J. Tait, D.D. Joh.); or at the Clergy Training School, Westcott House, founded in 1881 (Principal—Rev. Canon B. K. Cunningham, M.A. Trin.). These and other similar institns.—the Westminster Coll., founded 1844 (Principal—J. Oman, M.A. Qu., D.Phil., and D.D. Edin., Presbyterian); Cheshunt Coll., founded 1768 (President—Sydney Cave, D.D. Lond., Undenominational); St. Edmund's House, founded in 1896 (Principal—Rev. T. F. McNulty, M.A., Roman Catholic) and Wesley House, founded 1924 (Principal—H. Maldwyn Hughes, D.D. Lond.)—are not directly or definitely concerned or connected with the Univ. Cheshunt and Westminster Colleges were moved from Cheshunt and London in 1905 and 1899 respectively.

RESEARCH STUDENTS. Each application for admission must be accompanied by (i.) a diploma or other certif. of graduation at a Univ.; (ii.) a statement as to the course of research which the applicant desires to pursue, together with evidence of qualification, attainments, and previous study; (iii.) a certif. or declaration that the applicant has attained the age of 21 yrs. In exceptional cases requirement No. (1.) may be dispensed with. The application is not granted unless it appears (*a*) that the course of research can conveniently be pursued within the Univ., and (*b*) that the applicant has produced adequate evidence that he is qualified to enter upon the proposed course.

Asst. Registrary for Research Studies: R. E. Priestley, M.A. Clare.

A Research student pursues his course under direction and supervision, prescribed by the Degree Committee of the Special Board of Studies concerned. If he wishes to obtain a degree elsewhere he may, after he has pursued his studies in the Univ. for not less than 2 terms with regularity and industry, receive a *Certificate* to that effect signed by the V.C. After a course extending over 2 yrs. and residence in the Univ. for at least 6 terms (Cambridge graduates, 3 terms) after admission as research students, the M.Sc. or M.Litt. may be obtained. For the Ph.D. (v. p. 17) 3 yrs. are ordinarily required, including

2 (in special cases 1⅔) in the Univ. One year of the 3-years' course may be remitted if the applicant satisfies the Board of Research Studies that he or she has done at least a year's satisfactory research work before admission to Cambridge Univ.

UNIVERSITY SCHOLARSHIPS open to graduates number about 57, and are worth about £5600 p.a. In almost every instance they are open only to persons who have graduated in or are members of this Univ., and in some cases only to those who have kept a certain number of terms. For details see *Students' Handbook* (price 7s. 6d., Univ. Press), which also gives details of *Entrance* Scholarships.

EXPENSES. See p. 214.

APPOINTMENTS. (1) The University Appointments Board is concerned with appointments of all kinds (Secy.—H. A. Roberts, M.A., Univ. Offices; Educational Secy.—R. S. Goodchild, M.A.); (2) the Scholastic Agency is concerned with scholastic appointments only (Director—Prof. W. J. Lewis; office at Mineralogical Museum).

WOMEN. From 1872 women were informally admitted to Tripos examns. in the Univ., and from 1881 have been formally admitted to the *Previous* examn., the Tripos examns., and certain examns. in Med. and Music. They were subsequently admitted to the courses and examns. for the Diplomas in Agric., Horticulture, Forestry, and Geog., and for the Training of Teachers, and were made eligible for Certifs. of Research. Finally in Oct. 1921 a Grace admitting them to titular degrees was passed. Women students must reside either at Girton or at Newnham or within the precincts of the Univ. under the Regulations of one or other of these colleges.

The UNIVERSITY LIBRARY contains over 1,000,000 vols., including many early printed books, and over 10,000 MSS. and 165,000 maps. It is entitled under the Copyright Act to a copy of every book published in the U.K., and a large number of foreign books and periodicals are acquired by purchase. It contains, amongst others, the following remarkable collections: Acton library (mediæval, ecclesiastical, and modern history, ab. 60,000 vols.); W. G. Aston's Japanese library; Sir T. Wade's Chinese books; J. W. Clark collection (Cambridge books, pamphlets, papers, etc.). The annual budget is about £18,000.

Each College and Hostel has a library. Some are interesting survivals of mediæval rooms kept in the state in which they were originally arranged. Among special collections in College libraries are: in Christ's College the Robertson Smith collection of Oriental books, many of which are connected with Semitic literature; in Gonville and Caius College 800 MSS. collected by Wm. Moore, 1653–59, 60 *incunabula*, heraldic collections of Dr. John Knight (17th cent.), 1300 books and controversial pamphlets of Dr. Wm. Branthwaite (d. 1619), Norfolk and Suffolk topographical and genealogical works; in Girton College small collections of Oriental books, chiefly Sanskrit (Cowell) and Hebrew (Frere—printed catalogue), and Botany books and pamphlets (Ethel Sargant).

In the Arts School in Bene't Street are the Seeley Memorial (works on History and Comparative Politics originally collected by Prof. John Symonds, 1771 to 1807, and added to by his successors), the Bendall (Sanskrit, etc.), and English, Modern Languages and Moral Sciences departmental libraries. The Balfour library in Downing Place contains a large collection of books and periodicals on biological subjects. Here also is the Marshall Library of Economics. Other important departmental collections are in the Museum of Classical Archæology, the Squire Law Library, the Selwyn Divinity School,

and the schools of the Natural Sciences. There are music collections in the Fitzwilliam Museum and Museum of Archæology and Ethnology. The Library of the Philosophical Society maintains a special relation to all the Scientific Depts., and is very rich in sets of Journals and Scientific Transactions.

MUSEUMS of Art and Archæology. The Fitzwilliam (Director and Marlay Curator—S. C. Cockerell, M.A.) contains a large and valuable collection of paintings, drawings, engravings, Egyptian and Greek antiquities, ceramics, coins, illustrated MSS., autographs and early printed books; the Museum of Class. Archæol. (Curator—A. B. Cook, M.A. Qu.) contains a collection of casts illustrating the history of Greek sculpture.

The Museum of Ethnol. and Archæol. (Curator—L. C. G. Clarke, M.A. Trin. H.) has a large and increasing collection, including Saxon urns and ornaments, casts of Central American monuments, Egyptian stone implements, unique Fijian collection, and numerous others resulting from scientific expeditions by Cambridge men.

The "Museums of Science" include museums, laboratories, lecture-rooms, class-rooms, and workshops for Agric., Bio-Chem., Bot., Chem., Engin. (including Engine-room, Elasticity, Elec., and Hydraulic Labs., and drawing office), Exper. Physics, Hum. Anat., Ethnol., Forestry, Medicine, Mineralogy (collection very largely increased in recent years and one of the best in the country), Physiol., Psychol., Zool. and Comp. Anat. The Zool. Lab., in addition to providing for the ordinary work of the Dept. and for research, affords peculiar facilities for the study of diseases of animals and of economic entomology. The Museum of Zool. includes very complete series of vertebrates and invertebrates, the fishes obtained by Charles Darwin during the voyage of H.M.S. *Beagle*, a series of invertebrata from Naples, valuable collection of Polyzoa, extensive collection of marine animals from Pacific and Indian Oceans, and an important collection illustrating heredity, protective resemblance, and mimicry [Supt.—C. F. Cooper, M.A. Trin.; Strickland Curator (Birds)—H. Gadow, M.A., F.R.S. (King's); Curator in Entom.—H. Scott, Sc.D. Trin.]. The Sedgwick Museum of Geol. includes a fine collection of British and foreign building stones lately added to the Economic section.

In addition to the laboratories of the School of Agric. there are Field Labs. covering about 10 acres, provided by means of Govt. grants for an Institute for Research in *Animal Nutrition*; also a Univ. Farm (Director—A. Amos, M.A. Down.) of 200 acres and *Plant-breeding* Farm of 230 acres. The *Botanic Garden* (Director—H. Gilbert-Carter, M.A. Trin.) has excellent facilities for study. The Molteno Institute for research in *Parasitology*, and a *Low Temperature* Station for research in *Bio-Chemistry* and *Bio-Physics* were established in 1921.

A *Horticultural* Research Station was established in 1924 in co-operation with the Ministry of Agriculture.

A SCHOOL OF PATHOLOGY was endowed by the Rockefeller Foundation (£133,000) and Ernest Gates (£33,000) in 1924.

The OBSERVATORY (Director—Plumian Prof. of Astr.), about a mile from Cambridge, has a meridian circle of 8¼ in. aperture; the Northumberland equatorial 12 in. aperture; the Sheepshanks photographic equatorial 12¼ in.; a number of smaller instruments, and a good library. The Solar Physics Observatory standing close to the older Obs. has the Newall telescope (25 in.), McClean cœlostat and spectrograph, Huggins telescopes, etc. The Univ. has taken over charge (for the Govt.) of the Solar Physics Obs. formerly at South Kensington, receiving a grant-in-aid.

The CAMBRIDGE LOCAL EXAMINATIONS, instituted in 1858, are conducted at various places throughout the country and overseas. Copies of the Regns. regarding the Junr. Local and School and Higher School Certificate examns. and the examns. (designed for teachers of not less than 20 yrs. of age) for Certifs. of Proficiency in Religious Knowledge and in English, may be obtained from the Secy., Local Examns. Syndicate, Syndicate Buildings.

UNIVERSITY EXTENSION Lectures are delivered and classes in connexion with them held by a staff of about 40 itinerant lecturers in various towns in different parts of England, including places so distant as Southport, Newcastle, Gt. Yarmouth, and Exeter, under a system initiated in Cambridge in 1873. The characteristic features of the method of teaching adopted are (i.) the Lecture presenting the subject in broad outline, (ii.) the Class, held for about an hour before or after the lecture, at which questions are given out by the lectr., (iii.) the short essays written on these questions, and (iv.) the examn. The grades of certificates are: *Terminal*, awarded after a course of ordinarily 12 lectures; Terminal Certificate in Honours implying distinction; *Sessional*, for courses extending over not more than 2 yrs. and including at least 22 lectures; the *Vice-Chancellor's*, awarded to students who obtain Terminal or Sessional certifs. satisfying certain conditions and submit a satisfactory essay; and *Affiliation* certif., obtainable only at affiliated centres (Exeter, Leicester, and Southport) under special conditions. A *Travelling Library* is provided for each course. The work is under the management of the BOARD OF EXTRA-MURAL STUDIES, on which there are, in addition to members of the Senate, representatives of the Local Centres Union and the Workers' Educational Assocn. Full particulars can be obtained from the Secy., Syndicate Buildings (Rev. D. H. S. Cranage, Litt.D.).

TUTORIAL CLASSES are arranged in connexion with the Workers' Educational Assocn. They are managed by a Committee appointed by the Board of Extra-mural Studies, including all the members of the Board nominated by the W.E.A.

PUBLICATIONS. The *Camb. Univ. Reporter*, weekly during term, 3d. a copy, terminal subs. 2s. 6d., or by post 4s. 6d.; *Ordinances*, 1923 (fresh editions every 3 or 4 yrs., *Supplementary Ordinances*, 1925, 2s. 6d.), 15s.; *The Students' Handbook*, annually in July, 7s. 6d.; *Facilities for Graduate Study and Research*, 1923; *Compendium of Univ. Regns.*, 9d.; *The Statutes of the Univ., with some Acts of Parlt.*, 10s.; *Endowments of the Univ.*, 1904, 10s. 6d.; *Alumni Cantabrigienses*, Ed. J. and J. A. Venn (to 1751, Parts I. to III., A to R); *Matricns. and Degrees* (a list of all those who have entered the Univ.; 1544 1659, 1850–1900, 1901–1912); the *Calendar*, annually (Oct.), 15s.; the *Historical Register*, 20s.; *Historical Register Supplement*, 1911–20, 8s. 6d.; *Index to Tripos Lists*, 1748–1910, 10s.; *The War List of the Univ. of Cambridge*, 1914–18, 20s.; *University Extension: a Survey of 50 Years*, by the Master of the Temple, 3s. 6d. *Histories*: (*a*) *Annals of Cambridge*, by C. H. Cooper (5 vols.); (*b*) *The Univ. of Cambridge*, by J. B. Mullinger (3 vols. to the later 17th cent.); (*c*) College Histories—Robinson's Series, various authors; Dent's Series—King's, St. John's, Trinity, 2s. each. *Magazines*: The *Cambridge Review*, the *Granta*, the *Old Cambridge*, the *New Cambridge*, weekly during term.

THE YEAR 1924–25

BENEFACTIONS. The widow of the late Prof. Alfred Marshall, a selection of books from his library with £1000 for expenses connected with the books and for promoting Economic research; likewise upwards of £250 p.a. for Marshall Library Fund. E. Gordon Duff bequest of half residuary estate.

Captain Scott Memorial Trustees, £12,000 for Polar Research Institute; Reginald Cory, £600 for the Botanic Garden; Sir Wm. Dunn's Trustees, £500 p.a. for 3 years for Bio-Chemistry; Royal Agricultural Society, endowment of Gilbey Lectureship; Girdler's Company, £100 p.a. for 3 years for Economics; Mistress and staff of Girton College, price of a set of palæographical works for the Library; anonymous, £50,000, and W. N. McClean, £5000, for Fitzwilliam Museum; Cambridge Association, £500 for Engineering School debt and £2113 for School of Physiology; Treasury Grant increased from £60,000 to £85,000.

LEGISLATION. Proposed new Statutes, as drafted by the University Commissioners, were published to the University for discussion in the Senate. A Statute was approved whereby students, with certain exceptions, must in future have passed or obtained exemption from the Previous Examination before being allowed to matriculate. The power to admit to complete degrees *jure dignitatis* Bishops, Deans, Heads of Colleges and others, was surrendered. The use of motor vehicles by undergraduates was restricted. A Joint Coal-mining Diploma of the Univs. of Cambridge and Birmingham for Cambridge Graduates in Engineering was established.

NEW POSTS. Lectr. in Parasitology (in place of Asst.); 2 Asst. Lectrs. in Education; Asst. Director of Magnetic Research.

OTHER DEVELOPMENTS. Erection of new offices for the Extra-Mural Board was begun, and the annual grant for the Board's work was increased to £3500.

RETIREMENTS. Prof. J. S. Reid, H. J. H. Fenton, A. Hutchinson, Miss B. S. Phillpotts. DEATHS. G. D. Liveing, Sir Clifford Allbutt, James Ward, W. W. Rouse Ball, A. C. Benson, Francis Darwin, J. E. McTaggart, W. G. Bell, I. F. Burns, F. Deighton, G. W. Hodder, J. Skinner.

HONORARY DEGREES. *D.D.*—H. V. Stuart, Daniel Davies. *LL.D.*—Lord Chalmers, J. Loeb, Viscount Cave, J. H. Whitley, the Earl of Reading, Viscount Bearsted, Lord Bradbury, Sir Fredk. Pollock. *M.A.*—Sydney Cave, D. T. Fyfe. *Litt.D.*—Sir Henry Newbolt. *Sc.D.*—J. Joly, A. P. Maudslay, W. W. Campbell, B. Baillaud, W. de Sitter, H. Nagaoka, F. Schlesinger. *Mus.D.*—Sir Hugh Allen.

OTHER DEGREES. LL.D., 2; M.D., 17; Litt.D. and Sc.D., 7; B.D., 3; Ph.D., 43; M.Chir., 2; M.A., 797; LL.M., 8; M.Litt. and M.Sc., 5; M.B., 46; B.Chir., 47; B.A., 1101; LL.B., 107; Mus.B., 4. Titles of degrees: Diplomas conferred on women—M.A., 198; B.Chir., 1; B.A., 312; LL.B., 2 Successful in Tripos examns. (1925): Math.—m. 155, w. 42; Class.—m. 136, w. 27; Mor. Sc.—m. 6, w. 6; Nat. Sc.—m. 253, w. 39; Theol.—m. 44, w. 1; Law—m. 147, w. 2; Hist.—m. 253, w. 41; Or. Lang.—m. 4, w. 1; Mod. and Med. Lang.—m. 102, w. 29; Mech. Sc.—m. 77; Econ.—m. 80, w. 10; Anthrop.—m. 2; Engl.—m. 66, w. 30; Geog.—m. 43, w. 5.

STUDENTS. Undergraduates (men): First year—1469, 2nd—1411, 3rd—1240, 4th—170; total, 4290. Women: 1st year—161, 2nd—144, 3rd—124, others, 35; total, 464.

Research students, April 1925, 248, of whom 80 were Cambridge graduates, while the others came from other Univs. in England (49—Liverpool 9, London 13, Manchester 9), the U.S.A. (30), India (12), Scotland (19), Wales (14), Ireland (3), other parts of the Empire (30), China (1), Japan (1), European (4). The fields of research were chiefly Physics (40), Chemistry and Physical

Chemistry (34), Bio-Chemistry (22), Botany (17), Zoology (5), Physiology (11), Medicine (7), Agriculture (10), History (17), English (17), Divinity (6), Economics (8), Oriental Languages (5), Classics (5).

APPOINTMENTS BOARD. In 1924 400 appointments were obtained on the introduction of the Board. These included: educational, 123; manufacturing and technical, 103; administrative posts in commerce and industry, 90; government departments, mainly scientific, 7; colonial administrative, 16; agriculture and forestry, 25; Indian and Colonial Railways, P.W.D. and Survey, 8; journalism and publicity, 7; secretaryships, 4; railway traffic, 4.

LOCAL EXAMNS. were held in Dec. 1924 at 304 centres, including 39 in India, 23 in Ceylon, 13 in Straits Settlements and Malay States, 3 in China, 18 in Africa, 17 in W. Indies, and others in Aden, Central and S. America, Bermuda, Fiji, Gibraltar, Mauritius, and Seychelles. The number of candidates was 13,847. In July 1925 the examns. were held in 345 centres, of which 18 were overseas, and the number of candidates was 9991.

The BOARD OF EXTRA-MURAL STUDIES in their first annual report, issued Nov. 1925, announced the institution of a fund for stipends for lecturers in addition to fees. New offices ("Stuart House") are being built for the Board. *Local lectures* courses increased from 67 to 77, but the average attendance declined. The second Cambridge *Summer School for Foreign Students* was attended by 120 men and 120 women; 25 nationalities were represented, notably German (93), Swiss (20), Danish (16), Swedish (15), Austrian (14), Czecho-Slovak (13). The *Summer School of Geography* held at the same time was attended by 73; among the lecturers was Miss Moscheles of the Univ. of Prague. *Tutorial Classes* numbered 19, including 3 in Biology—a new departure; the tenth summer school for T.C. students, attended by 84, was held at Cheshunt College. The Board inaugurated a scheme for the attendance of *Extra-mural Students at Cambridge*; 5 were in residence during the year, of whom 2 held bursaries for a second year; one graduated in the second class in Pt. II. of the Economics Tripos, and obtained a post as Lecturer in a Higher Commercial College in Japan; one came to Newnham and obtained a grant of £250 from the Med. Research Council for research in Bio-chemistry; one has undertaken historical research work; two came from educational settlements (Fircroft and Beechcroft) and received grants from Emmanuel and Magdalene Colleges; six new students came into residence (Pet., Trin. H., King's, Sid., Girton, and Newnham) in Oct. 1925.

Continued from p. 51.—

ST. JOHN'S COLLEGE.—Fellows. *Add*: C. W. Previté-Orton, M.A.; E. G. Dymond, B.A.; F. H. Constable, B.A.; T. G. Room, B.A.

UNIVERSITY OF DURHAM

VISITOR—THE LORD BISHOP OF DURHAM.

CHANCELLOR—The Rt. Hon. the EARL OF DURHAM, K.G., G.C.V.O., D.C.L.

VICE-CHANCELLOR—Prof. P. J. HEAWOOD, M.A.

PRO-VICE-CHANCELLORS—Sir THEODORE MORISON, K.C.S.I., K.C.I.E., M.A., D.C.L , Sir DAVID DRUMMOND, C.B.E., M.A., M.D., D.C.L., LL.D. ; Prof. ARTHUR ROBINSON, M.A., D.C.L.

PROCTORS—H. ELLERSHAW, M.A.; H. J. HUTCHENS, D.S.O., M.A.

REGISTRAR—H. G. THEODOSIUS, M.A., B. ès L.

LIBRARIAN—E. V. STOCKS, M.A.

AFFILIATED AND ASSOCIATED COLLEGES

A. Colleges in which students may matriculate, keep terms, and pass examns., and so qualify without coming to England for the B.A., M.A., B.D., D.D., B.C.L., and D.C.L. degrees:

CODRINGTON COLLEGE, BARBADOS. Trustees (under the will of Christopher Codrington, who died in 1710)—The Society for the Propagation of the Gospel; Visitor—The Lord Bishop of Barbados; Principal—J. C. Wippell, M.A., B.D.; Prof. of Theology—E. J. Lee, M.A.; Prof. of Classics—W. W. C. Dunlop, M.A.; Prof. of Medicine—W. B. Clarke, M.B., C.M.

FOURAH BAY COLLEGE, SIERRA LEONE. Founded in 1827 by the Church Missionary Society. In 1918 the Wesleyan Missionary Society became associated with the C.M.S. in the control of the College. Visitor—The Bishop of Sierra Leone; Deputy Visitors—The Chief Justice, the Colonial Secretary; Principal—James Denton, M.A. (acting); Vice-Principal—W. M. Tregidgo, B.Sc.; 4 Tutors and 7 Lectrs.

B. Ladies' College, Cheltenham; Queen's College, Harley St., London; Women's Training Colleges, Darlington and Ripon. Women students of 18 yrs. of age who have completed 2 yrs. of study and examn. at any one of these and passed the First Public Examn. in Arts may be allowed to count 2 yrs. kept at the College as 1 yr. towards the B.A. degree.

C. The following associated Theological Colleges:

St. Aidan's; St. Andrew's (Oyo, Nigeria); St. Augustine's; Burgh; Chichester; Cumbrae; Dorchester; Edinburgh; Highbury; Jamaica; St. John's, Armidale, N.S.W.; Lichfield; Lincoln; Moore, Sydney; Queen's (St. John's, Newfoundland); Salisbury; Selwyn (Dunedin); Truro; Warminster; Bishop Wilson School (Isle of Man); Theol. Depts. of King's Coll., London, and of Queen's Coll., Birmingham.

Students may take in these Colleges courses extending over 3 years, which qualify for the Lic.Theol. Nine terms kept in one of these Colleges, after passing the matricn. examn., may be counted in lieu of 6 of the terms required for the B.A. degree in the case of a student who obtains the Lic.Theol.

GENERAL INFORMATION

The Univ. was established by Act of Parliament in 1832 and reconstituted in two divisions in 1908. The College of Medicine, founded in 1832, became associated with the Univ. first in 1852, and more closely, as "The University of Durham College of Medicine," in 1870. Armstrong College was founded in 1871 as the Durham College of Physical Science, and assumed its present name in 1904. The Vice-Chancellorship is held in rotation by a representative of the Durham Colleges, College of Medicine, and Armstrong College for 2 years.

The Univ. has no teaching staff apart from those of the Durham Colls., the Coll. of Medicine, and Armstrong Coll. The Council of the Durham Colleges, the Coll. of Medicine, and Armstrong Coll. have respectively full power and authority to regulate teaching and discipline, and to provide for the appointment of all their teachers and other officers.

LIBRARIES. See under the Colleges.

FACULTIES AND DEANS. At Durham only: Theology, Prof. Dawson-Walker, and Music, Prof. Bridge. At Durham and Armstrong: Arts and Letters, Rev. C. E. Whiting (Durham—History), and Science, Prof. Welch (Armstrong—Nav. Arch.). At College of Medicine: Medicine, Prof. McDonald (Pathology). At Armstrong: Law, Prof. A. Robinson (Durham—Educn.), and Commerce, Miss G. E. M. Jebb. University Committees of Education and of Military Education.

MATRICULATION. See Appendix XXI.

ADMISSION OF STUDENTS FROM OVERSEAS. The matricn. examns. of Sydney and the S. African Univs. and degrees in Arts of all Univs. of the British Empire are accepted. See also Appendix XXIII.

DEGREES. B.A., M.A., B.Litt. (obsolete), M.Litt., D.Litt.; B.Sc., M.Sc., D.Sc.; B.D., D.D.; B.C.L., D.C.L., LL.B.; M.B., B.S., M.D., M.S., D.Ch.; B.Hy., D.Hy.; M.D.S., B.D.S.; B.Mus., D.Mus.; B.Com., M.Com.; Ph.D. (v. p. 17)

Diplomas in Foreign Langs., Arabic, Theol., Psychiatry, Teaching, Public Health; L.D.S., Lic.Theol.

The B.A., B.Sc., or B.Com. may be obtained by a 3 yrs.' undergraduate course. For the 1st yr. of the B.Sc. course equivalent study in another Univ., and for the 1st yr. of the B.Com. course 2 yrs.' attendance as an evening student, may be accepted. For the B.Mus. two public examns. must be passed.

For the M.B. and B.S. at least 1 of the 5 yrs. of Med. study must be spent in the Coll. at Newcastle. The B.Hy. is open to graduates in Med. who have spent 1 yr. in professional study at Newcastle. The B.D.S. course is one of 5 yrs.

The B.C.L. may be taken by examn. by a B.A. of 6 terms' standing.

The LL.B. may be taken by a candidate of Intermediate grade in Arts or Science after a 3 yrs.' course.

The course for the Diploma in Teaching covers 3 terms after graduation.

The course for the Diploma in Arabic covers 3 terms.

The M.A. is open to a B.A. of 9 terms' standing who obtained 1st or 2nd Class Honours in the Final B.A. examn. or, after passing this examn., has passed the Dipl. Theol., B.D., B.C.L., M.B. or B.Sc., degree examn., or who qualifies by passing a special examn.

The M.Sc. can be obtained by a B.Sc. of 2 yrs.' standing by original work or examn.

The M.D.S. can be obtained by a B.D.S. of 2 yrs.' standing by thesis and practical dental work of high skill.

The D.Litt. or D.C.L. may be obtained by a B.A. (or B.Litt.) or B.C.L.,

respectively, of 10 yrs.' standing by a sufficient contribution to learning; the D.Sc. in the 7th year after admission to B.Sc.; the D.Mus. by a B.Mus. of 15 terms' standing.

For the M.D. a candidate must have had 2 yrs. of practice in a hospl. or Mily. or Naval service after graduation as M.B.

For the D.Ch. a candidate must have devoted 3 yrs. (including one at least in the Univ. and 6 months at least abroad), subsequently to having obtained a registrable qualification, to the study of surgery and ancillary subjects.

For the D.Hy. 2 yrs.' experience of Pub. Health administration or research after obtaining the B.Hy. are necessary.

M.D. Degree Examn. for Practitioners. A person who has been registered by the Gen. Med. Council of the U.K. and in the active practice of his profession for 15 yrs. as a qualified practitioner and is not less than 40 yrs. of age may obtain the M.D. degree without fulfilling any conditions as to residence on passing an examn. instituted for this purpose by this Univ. and held in March and June. Candidates who have not passed previously to their professional examn. an examn. in Arts are required to pass an examn. in Classics and Maths. Natives of India are admissible if they bring evidence of having passed within the preceding year an examn. in Latin.

Degrees, etc., in Theology. The B.D. examn. is open to candidates who are graduates of a Univ. of the British Empire in Arts (or Letters) of 2 yrs.' standing; if of another Univ. they must have obtained the Dipl. Theol. of Durham. The Board of the Faculty may admit also non-graduates who keep three terms at Durham and pass the Dipl. examn.

The Lic. in Theol. is open to members of the C. of E. only. Nine terms must be kept at one of the Theol. Colls. in list C above.

The Dipl. in Theol. is obtainable by graduates of a Univ. of the British Empire who keep 3 terms at Durham and pass the Dipl. examn. Residence for a year at an approved Australian Coll. may be accepted in lieu of keeping 3 terms at Durham.

The D.D. is open to a B.D. of Durham who is a Master of Arts of 10 yrs.' standing on submission of a sufficient contribution to learning.

FEES. Matricn., £2. Examns. and degrees, £2 to £10 (Examns. for D.Ch., £20; D.Hy., £20; M.D. for practitioners, 50 gs.; Final for M.B., B.S., £15).

PUBLICATIONS. *Univ. Calendar* (Sep.), 2s. 6d.; *Durh. Univ. Gazette*, 4s. annually; *Durh. Univ. Journal* (oldest Univ. Mag. in England), once a term, 1s. 6d.

THE YEAR 1924–25

NEW DEVELOPMENTS. Students on taking their initial degree to be placed automatically (if of proper age) on the Parliamentary Register of the University Constituency. Faculty of Law established. Candidates for Honours in all Arts Schools to pass, in future, a qualifying examn. not less than two years before their Final examn. Acceptance by the three Units of the University of the Senior Secondary Schools Examination of Northern Ireland as qualifying for matriculation. Institution in the Durham Division of single Honour Schools in English, French and German.

HONORARY DEGREES CONFERRED. *D.D.*—Rt. Rev. W. R. Adams; *D.C.L.*—A. J. Dawson; *D.Sc.*—Sir A. G. Hadcock; *D.Litt.*—J. Bilson.

OTHER DEGREES. M.D., 15 (including women—2); M.B., B.S., 50 (w.—9); M.A., 73 (w.—13); B.A., 120 (w.—64); D.Sc., 4; M.Sc., 27 (w.—4); B.Sc., 116 (w.—19); D.Mus., 2; B.Mus., 5; B. Com., 3; Ph.D., 5; L.Th., 23; Dip. Th., 9; L.D.S., 11 (w.—2); D.P.H., 2; D.Th.P.T., 63 (w.—28).

TUTORIAL CLASSES (W.E.A.), 50. In Durham, Northumberland, and Cumberland Counties and North Yorkshire.

DURHAM DIVISION

President of Council—J. S. G. PEMBERTON, M.A., D.C L

Secretary of the Council—J. L. BURCHNALL, M.A.

Secretary of Examinations—J. H. How, M.A.

Prælector—S. R. P. MOULSDALE, M.A., B.D.

Treasurer—F. W. RITSON, M.A.

Librarian—E. V. STOCKS, M.A.

PROFESSORS AND LECTURERS

Botany

Griffiths, B. M., D.Sc. Birm., F.L.S. Reader.

Phillips, Elsie, Ph.D.Liv., B.Sc. Lectr.

Chemistry [Prof.

Masson, J. I. Orme, D.Sc. Melb.

Macbeth, A. K., M.A. St. And., D.Sc. Belf. Reader.

Dobson, H. J. E., M.Sc. Lond. Lectr.

Classics

Cruickshank, A. H., M.A. Ox., D.Litt. (Greek and Class. Lit.) Prof.

How, J. H., M.A. Ox. (Latin) Prof.

Conway, G. S., B.A. Camb. Lectr.

Boden, J. P., M.A. Lectr.

Body, L. A., M.A. Camb. Lectr.

Donaldson, Rachel E. D., M.A. Ox. and Durh. Lectr.

Norman, R. T., M.A. Lond., B.A. Ox. Lectr.

Divinity and Eccl. History

Dawson-Walker, D., M.A., D.D. Ox. Prof.

Divinity

Pace, E. G., M.A., D.D. Reader.

Economics and History

Hood, F. C., M.A Edin. Lectr.

Education and Psychology

Robinson, A., M.A., D.C.L. Prof.

Rich, R., M.A., Lond. Lectr. (Ed.).

English Lang. and Lit.

Ellershaw, H., M.A. Prof.

Colgrave, B., M.A. Camb. Lectr.

Geology

Holmes, A., D.Sc. Lond., F.G.S. Reader.

Hopkins, W., M.Sc. Lectr.

Hebrew and Oriental Langs.

Guillaume, A., M.A. Ox. Prof.

History [Reader.

Whiting, C. E., M.A., B.D., B.C.L.

Edwards-Rees, Désirée M. M., B.A. Ox. Lectr.

History, Ecclesiastical

Wallis, C. S., M.A. Lectr.

Liturgiology [Lectr.

Moulsdale, S. R. P., M.A., B.D.

Mathematics

Heawood, P. J., M.A. Ox. Prof.

Burchnall, J. L., M.A. Ox. Lectr.

Baxter, E. F., M.A. Camb., M.Sc. Lond. Lectr. (Applied M.).

Military Science

Gadd, H. R., D.S.O. Lectr.

Modern Languages [Prof.

Herdener, C. F., M.A. (B.A. Lond.) [Lectr. (French).

Lambley, Kathleen, M.A., Doc. Univ. Rennes

Houston, Gertrude C., M.A. Belf. and Lond. Lectr. (German).

Giraud, J. Fr. Asst.
Janis, A. J. Fr. Asste.
Music
Bridge, J. C., M.A., D Mus. Prof.
Palæography
Falkner, J. M., M.A. Ox. and Durh. Hon. Reader.
Philosophy [Prof.
Jevons, F. B., M.A. Ox, D.Litt.
Physics
Wagstaff, J. E. P., M.A., D.Sc. Camb. Prof.
Bastings, L., B.A., M.Sc. N.Z. Lectr.

Psychology, v. Educn.

Theology, v. also Div.
Coleman, N. D., M.A. Camb. Lectr. in T. and Hellenistic Greek.
..... Lectr. in Pastoral T.

University Extension

14 Tutors for 22 classes. Secy. to the Joint Committee: Rev. Dr. Pace. Organizing Secy. of N.E. District of W.E.A.: Alderman W. N. Smith.

THE DURHAM COLLEGES

UNIVERSITY. Master—H. Ellershaw, M.A. Censor and Bursar—A. A. Macfarlane-Grieve, M.A. Chaplain—.....

HATFIELD. Master—A. Robinson, M.A., D.C.L. Vice-Master and Chaplain—E. G. Pace, M.A., D.D. Censor—C. F. Herdener, M.A. Bursar—J. L. Burchnall, M.A.

ST. CHAD'S. Principal and Chaplain—S. R. P. Moulsdale, M.A., B.D. Vice-Principal—C. E. Whiting, M.A., B.D., B.C.L. Classical Lectr.—L. A. Body, M.A. Fellow, Tutor, and Bursar—J. P. Boden, M.A.

ST. JOHN'S. Principal and Chaplain—C. S. Wallis, M.A. Vice-Principal—H. Y. Ganderton, M.A. Classical Lectr.—O. W. Whaley, M.A. Lectr. in Hebrew—N. D. Coleman, M.A. Elocution Teacher—A. D. Culley, M.A., Mus.B.

ST. MARY'S (for women). Principal—Rachel Donaldson, M.A.; Senior Tutor—Helen I. Wilkie; Censor and Tutor—Désirée M. M. Edwards-Rees, B.A.; Domestic Bursar—Marjorie J. Middleton; Secretary—Alethé H. Milward, B.A.

BEDE. Principal—E. F. Braley, M.A., LL.M. Lectrs.—T. W. Powell, M.A.; F. Bentley, B.A.; F. E. Dann, M.A., M.Litt.; G. Turley, M.Sc.; D. A. K. Clark, B.A.

ST. HILD'S (for women). Principal—Eleanor C. Christopher, M.A. Lectrs.—Winifred Hindmarsh, M.Litt.; Jean Templeton, M.A.; Margaret Dodgson; Gladys Hinde, B.A.; Alice Skillicorn, B.Sc.; Elsie Macdonald, B.Sc.

NEVILLE'S CROSS (Training College for women). Principal—Zeta G. D. May, M.A. Lectrs.—Mary Benson, M.A., B.Sc.; Marjorie C. Haywood, M.A.; Winifred M. A. Lomas, B.Sc.; Christina M. Muirhead, M.A.; Mary Sturt, M.A.

NON-COLLEGIATE STUDENTS. Censor—N. D. Coleman, M.A.

HOME STUDENTS (Women). Censor—Kathleen Lambley, M.A.

GENERAL INFORMATION (see also p. 66)

University College was formed at the opening of the Univ.; Hatfield College was opened (as Bishop Hatfield's Hall) in 1846, St. Mary's in 1899,

St. Chad's in 1904, St. John's in 1909. Bede College, founded in 1839, was brought into connexion with the Univ. in 1919 as a licensed Hall of Residence for Undergraduates. St. Hild's (established in 1858 as a C. of E. Training College) and Neville's Cross (established in 1921 by the County Council as a Training College) are licensed as places of residence for women undergraduates.

LIBRARY, 39,000 vols., 157 incunabula; including rare theological and patristic books. OBSERVATORY with almucantar, etc.

MATRICULATION. See Appendix XXI.

FEES. Including admission, tuition, examns., board and lodging, subscriptions and gratuities, at Univ. College, £120 p.a.; Hatfield, £100; St. Chad's, £105; St. John's, £103 : 10s.; St. Mary's, £105; St. Hild's, £44–£61; Neville's Cross, £45. Non-Coll. students pay £24 p.a., Univ. fees including club subscriptions; average cost of board and lodging per term £14 to £24. Students in Science in all cases pay £4 extra, terminally, for tuition.

FELLOWSHIPS, 3 Tutorial, £200 to £300, and 1 ordinary, £200, open only to candidates who have kept terms and taken B.A. in Durham Division.

THE YEAR 1924–25. Single Honour Schools in English, French and German were instituted. The Senior Secondary School Certificate of Northern Ireland was accepted as qualifying for Matriculation. A Pemberton Research Fellowship in Science, four Pemberton Science Scholarships, and two Kepier Scholarships (reserved for residents in Houghton-le-Spring) were established. New lectureships in Applied Mathematics, Botany, and Geology were instituted.

COLLEGE OF MEDICINE, NEWCASTLE-UPON-TYNE

Chairman of the Court of Governors—W. J. SANDERSON, J.P.

President of the College and Vice-Chairman of the Court of Governors—Sir DAVID DRUMMOND, C.B.E., M.A., M.D., D.C.L., LL.D.

Registrar—Prof. R. HOWDEN, M.A., M.B., D.Sc.

Hon. Treasurer—C. A. COCHRANE, M.A., D.C.L., J.P.

PROFESSORS, LECTURERS, ETC.

Anæsthetics
Tate, E., M.D., B.S. Tutor.

Anatomy
Howden, R., M.B., C.M. Edin., M.A., M.B., D.Sc. Prof.
Green, R. B., M.B., B.S. Lond., F.R.C.S. Lectr.
Whillis, J., M.B., B.S. Demr.

Lectrs. in Appl. A.:
Clay, J., K.H.S., C.B.E., M.B., B.S., F.R.C.S.
Lickley, J. D., M.D. Glas.

Bacteriology, v. Path. Comp.

Biology
Bews, J. W., M.A., D.Sc. Edin. (Botany) Prof.*
Meek, A., D.Sc., F.Z.S. (Zool.) Prof.*

Chemistry, Organic
Clemo, G. R., Ph.D., D.Sc. Lond., D.Phil. Ox. Prof.*

Chemistry, Inorganic
Briscoe, H. V. A., D.Sc. Lond., A.R.C.Sc., D.I.C. Prof.*

Children, Diseases of
Ogden, O. W., M.D. Lectr.

Dental Science, v. *infra*

Dermatology, Clinical
Bolam, Sir Robert A., O.B.E., M.D., LL.D., F.R.C.P. Lectr.
Thompson, S., M.B. Asst.

Hygiene, v. Pub. Health

Laryngology & Otology, Clinical
Whillis, S. S., M.D., B.S. Lectr.
Wilson, W. F., M.B., B.S. Lectr.

Materia Medica, Pharmacology, and Therapeutics
Hume, W. E., C.M.G., M.A., M.D., B.Chir. Camb., F.R.C.P. Prof.
Kirkhouse, Mona, M.D., B.S. Asst.

Lectrs. in *Electrotherapeutics*:
Gamlen, H. E., M.B., B.S., D.P.H.
Davidson, S. W., M.D., B.S.

Medical Jurisprudence
Hall, G., C.M.G., M.D. Lond., B.Sc. Lectr.

Medicine, Principles and Practice of
Oliver, Sir Thomas, D.L., M.D. Glas. and Durh., LL.D. Glas., D.Sc. Sheff., M.A., D.C.L., F.R.C.P. Prof.
Beattie, T., M.D., F.R.C.P. Lectr.

Medicine, Clinical
Beattie, T., M.D., F.R.C.P. Lectr.

* Also in Armstrong Coll.

Prof. Hume (v. Mat. Med.) Lectr.
Drummond, H., M.D., B.S. Lectr.
Parkin, A., M.D., F.R.C.S. Lectr.
Hall, G. (v. Med. Juris.) Lectr.
Patterson, D. W., O.B.E., M.B., B.S. Lectr.
Hunter, T. C., M.D., B.S. Lectr.
Nattrass, F. J., M.D., B.S. Lectr.

Midwifery and Gynæcology
Lyle, R. P. R., M.A., M.D. Dub. and Durh., B.Ch., B.A.O. Dub. Prof.
Murray, E. F., M.D. St. And., F.R.C.S. Lectr. & Clin. Lectr.

Lectrs. in Clinical M. :
Ruxton, W. L., M.B., C.M.
Campbell, L. Mabel R., M.A., M.B., Ch.B.
Evers, H. Harvey, M.S , F.R.C S.
Weeks, L. M., M.A., M.D. Hon. Asst. O. Physician.

Ophthalmology and Clin. Ophth.
Wardale, J. D., M.A., M.B., B.S. Prof.
Arkle, J. S., M.B., B.S. Asst.

Pathology and Clin. Path. [Prof.
McDonald, S., M.D. Edin., M.A.
Shaw, A. F. B., B.A., M D. Dub , D.P.H. Lectr.
Smith, R. P., M.B , Ch.B. Glas., D.P.H. Demr.
Spence, J. C., M.D. Demr. (Path. Chem.).
Murray, E. F., M.D , F.R.C.S. Demr. (Gynæc. Path.).

Pathology, Comp., and Bacteriology
Hutchens, H. J., D.S.O., D.P.H. Ox., M.A. Heath Prof.
Clayton, F. H. A., M.D. Lectr.
Warren, S. H., M.R.C.S., L.R.C.P., D.P.H. Demr.
Wallace, J. M., M.A. Camb., M.R.C.S., L.R.C.P. Demr.
Whitehead, H. R., M.Sc. Leeds, A.I.C. Demr.

Pathology, Medical
Prof. Hume (v. Mat. Med.) Demr.

Pathology, Surgical
Wardill, W. E. M., M.B., B.S., F.R.C.S. Demr.

Physics
Stroud, H., M.A. Camb. and Durh., D.Sc. Lond. and Durh., F.Ph.S.L. Prof.*
Todd, G. W., M.A., D.Sc. Prof.*

Physiology [Prof.
Burns, David, M.A., D.Sc. Glas.
Secker, J., M.Sc. Lectr.

Demrs. :
Dawson-Walker, E. F. D., M.B., B S.
Nattrass, F. J., M.D., B.S. (in Clinical P.)

Psychological Medicine
MacPhail, H. D., O.B.E., M.A., M.D. Lectr.

Public Health
Kerr, H., O.B.E., M.D., Ch.B. Edin., D.P.H. Prof.

Surgery
Angus, H. B., M.B., M.S., F.R.C.S. (Lectr. in Clin. S.) Prof.
Turner, G. G., M.B., M.S., F.R.C.S., F.A.C.S. (and in Clin. S.) Lectr.

Clinical Lectrs. :
Martin, A. M., M.B., B.S.
Clay, J. (v. Anat.)
Willan, R. J., M.V.O., M.B., M.S., F.R.C.S.
Pybus, F. C., M.B., M.S., F.R.C.S.
Johnston, H. M., B.A., M.B. Bell., F.R.C.S.
Barclay, J. H., M.D., M.S., F.R.C.S.
Hodgson, N., M.B., M.S., F.R.C.S.
Hindmarsh, T. A., M.B., M.S., F.R.C.S.

* Also in Armstrong Coll.

Gilmour, J., M.B., M.S., F.R.C.S.
Whyte, A. H., M.B., B.S.

Therapeutics, v. Materia Med.

Zoology, v. Biol.

Dental Science

Lectrs.:
Richardson, E. Y., L.D.S. (D. Anat. and Physiol.).
Daniels, J. W., L.D.S. (D. Mechanics).
Lotinga, C., L.D.S. (D. Metallurgy).
Coltman, J., L.D.S. (D. Surg. and Path.).
Walkinsaw, T. R. D., L.D.S. (Op. D. Surg).
Cooper, E. R., L.D.S. (Orthodontics).
Alderson, W. E, M.D. (D. Anæsthetics).
Davis, H., L.D.S. (D. Mat. Med. and Therap.).
Laing, A. M., L.D.S. (D. Microscopy and Histology).
7 Hon. D. Surgeons, 19 Hon. Asst D. Surgeons, 1 Anæsthetist, 1 Hon. Radiographer.

Long, J. J., L.D.S.
Prosthetic Tutor.

Head, L. H., L.D.S.
Tutorial D. Surgeon.

GENERAL INFORMATION (see also p. 66)

Instruction in Biology, Chemistry, and Physics is given at Armstrong College; in Clinical Medicine and Surgery, etc., in the Royal Victoria Infirmary and other hospitals; in Practical Midwifery and Clinical Gynæcology at the Princess Mary Maternity Hospital. Post-graduation teaching is supervised by a committee representing the College and the hospitals. A Research Committee provides facilities for, helps towards financing, and otherwise encourages research work in the College.

LIBRARIES, 13,000 vols. MUSEUMS: Anat., Hygiene, Mat. Med., Path.

MATRICULATION. See Appendix XXI.

SCHOLARSHIPS open to graduate students of the Coll.: £25, £40; Durh. graduates only, £200.

FEES. For Tuition, 5-yrs.' course for M.B., B.S., about £215, including Hospl. Fees, Practical Midwifery, Instruction in Fevers and Vaccination, and Students' Union; 4-yrs.' course for L.D.S., about £175; 5-yrs.' course for B.D.S. about £192. Examns. for M.B., B.S., £30; L.D.S., £15: 10s; B.D.S., £23; M.D., £5; M.S., £5; D.Ch., £20; D.P.H., 10 gs.; D.Psy., 10 gs.; B.Hy., 10 gs.; D.Hy., £20; M.D. (for practrs.), 50 gs., including degree fee; M.D.S., £5. Degree fees for M.B., B.S., £13: 2s.; B.D.S., £6: 16s.; L.D.S., £3; B.Hy., 6 gs.; D.Hy., £10; M.D., £10; M.S., 6 gs.; D.Ch., £10; Ph.D., £5; D.P.H., £3; D.Psy., £3.

PUBLICATIONS. *Calendar*; Students' *Gazette*.

THE YEAR 1924–25

BENEFACTIONS. Public subscriptions, £571.

NEW BUILDINGS. The new Union Buildings were opened by Lord Eustace Percy on October 22, 1925. The cost of the site and buildings has amounted to over £50,000.

RESIGNATIONS. W. D. Arnison, J. W. Leech, G. A. Clark.

DEATH. Hamilton Drummond.

STUDENTS. Graduate and research, 11 (women—2); preparing for a first degree—full-time, 250 (w.—39); part-time, 2; total full time, 335 (w. 15). Occasional, 99 (w.—12); taking courses not of a university standard, 76 (w.—4). DEGREES OBTAINED: M.D., 8 (w.—2), M.D. (practitioners), 7, M.B., B.S., 50 (w.—11), D.P.H., 2., L.D.S., 11 (w.—2).

ARMSTRONG COLLEGE, NEWCASTLE-UPON-TYNE

President of the College—Rt. Hon. VISCOUNT GREY OF FALLODON, K.G., P.C., D.C.L.

Chairman of Council—C. A. COCHRANE, M.A., D.C.L.

Vice-Chairman of Council—PERCY CORDER, D.C.L.

Principal—Sir THEODORE MORISON, K.C.S.I., K.C.I.E., C.B.E., M.A. Camb., D.C.L.

Registrar and Secy. of Examinations—J. Y. T. GREIG, M.A., D.Litt. Glas.

Bursar—R. N. WILKINSON.

Librarian—F. BRADSHAW, M.A. Oxon, D.Sc. Lond.

PROFESSORS, LECTURERS, ETC.

Accounting
Bell, Albert, F.C.A. . Lectr.
Allan, T. K. Asst. Lectr.

Agriculture and Rural Economy, v. also Forestry and Vet. Sc.
Gilchrist, D. A., B.Sc. Edin., M.Sc. Prof.
Wheldon, R. W., M.Sc. Lectr.
Pawson, H. C. Lectr.
Adam, D. T., B.Sc. Aberd. (Land Surv., etc.) Lectr.

Agricultural Botany [Lectr.
Redington, G., M.Sc. Leeds

Agricultural Chemistry
Collins, S. H., M.Sc., F.I.C. Adviser.
Hall, A. A., M.Sc. Liv. and Manc., Ph.D. Jena, F.I.C. Lectr.

Agricultural Economics
Dinsdale, D. H., B.A. Adviser.

Agricultural Mycology
Bennett, F. T., B.Sc. Adviser.

Agricultural Zoology
Gray, R. A. H., M.A., B.Sc. Aberd., M.Sc. Adviser.
Morrison, L., B.Sc. Aberd. Lectr.

Art (School of Fine Arts)
Hatton, R. G., Hon. A.R.C.A. Lond., M.A.
Prof. and Dir. of School.
Bullock, R., M.A.
Master of Painting and Asst. Dir.
Bertram, R. J. S., M.A. (Design).
Reid, J. M. W., A.R.C.A. (Sculpture).
Weightman, F. N., M.A. (Archit.).
Heslop, A. (Engraving).
8 Assts.

Botany, v. also Agric.
Bews, J. W., M.A., D.Sc. Prof.*
Blackburn, Miss K. B., D.Sc. Lond., F.L.S. Lectr.
Bartlett, A. W., M.A. Camb., B.Sc. Lond., M.Sc., F.L.S. Lectr.
Thomas, Meiron, B.A. Camb. Lectr.

Chemistry, v. also Agr.
Briscoe, H. V. A., D.Sc. Lond., M.Sc., A.R.C.Sc., D.I.C.
Prof.* (Inorg. and Physical C.) and Director of Dept.

* Also in Coll. of Med.

Clemo, G. R., Ph.D., D.Sc. Lond., D.Phil. Ox. Prof. (Organic C.).
Madgin, W. M., M.Sc. Lectr.
Robinson, P. L., M.Sc. Lectr.
Mallen, Miss C. E., M.Sc. Camb. Lectr.
Leitch, Miss G. C., M.A., B.Sc., Ph.D. St. And. Lectr.
Allpress, C. F., M.Sc. Birm. Lectr.
Hirst, E. L., M.A., B.Sc., Ph.D. St. And. Lectr.
..... Lectr.

Classics and Ancient History
Duff, J. Wight, M.A. Aberd., Ox. and Durh., D.Litt. Ox and Durh., LL.D. Aberd. Prof.
Shipley, Miss C. M., M.A. Lectr.
Waddell, W. G., M.A Glas. and Lond. Lectr.
Whittick, G. C., B.A. Ox. Lectr.

Crystallography and Mineralogy
Fletcher, M., M.A. Camb. and Durh., M.Sc., F.G.S. Lectr.

Economics, v. also Accounting, Law
Hallsworth, H. M., O.B.E., M.A. Manc., M Com. D. Dale Prof.
Jebb, Miss G. E. M., M.A. Lectr.
M'Callum, E. D., M.A. Glas. ,,

Education
Smith, Frank, M.A. Camb., B.A., B.Sc. Manc., Ph.D. Prof.
Melville, Ellen L., M.A. Leeds and Durh. Lectr.
Brown, V., O.B.E., M.Sc. Lectr.
Bailes, Stella, B.Sc. Lectr.
Brigstocke, W. O., B.A. Lond. Lectr.

Engin., Mechanical, Marine and Civil, v. also Nav. Arch.
Hawkes, C. J., M.Sc., A.M.I.C.E., M.I.N.A., M.I.M.E., R.N. (retd.) Prof.
Morrow, J., M.Sc. Manc. and Durh., D.Eng. Liv. Reader.
Hardy, G. F., M.Sc. Lectr.
Hall, J., M.Sc. Lectr.
Dixon, J. T. H., M.Sc. Lectr.
Davies, S. J., B.Sc. Lond., A.M.I.M.E. Lectr.
Martin, H. E. L., B.Sc. Bris. and Lond., A.M.I.C.E. Lectr.
Miller, C. V., B.Sc. Lond. Lectr.
Baker, H., M.Sc. Manc., Ph.D. Birm. Lectr.

Engineering, Electrical
Thornton, W. M., O.B.E., D.Sc. Manc., Liv., and Durh., D.Eng. Liv., M.I.E.E. Prof.
Wilcken, J. A., B.Sc. Copenhagen, Ph.D. La Plata Lectr.
Dickinson, J., M.A. Ox., M.Eng. Sheff. Lectr.

English
Renwick, W. L., M.A. Glas., B Litt. Ox. J. Cowen Prof.
Wragge, Sybil, M.A. Lectr.
Elmes, R. S., B.A. Camb. Lectr.

Forestry
Hopkinson, A. D., B.Sc. Aberd. Lectr.

Geology, v. also Cryst.
Hickling, G. A., D.Sc. Manc., M.Sc. Prof.
Mockler, G. S., B.Sc. Manc. Lectr.
Allan, B. A., B.Sc., Ph.D. Edin. Lectr.
Tomkieff, Serge Lectr.

History, Modern
Morison, J. L., M.A., D.Litt. Glas. Prof.
Bradshaw, F., M.A. Ox. and Durh., D.Sc. Lond. Lectr.
Pybus, Miss H. J., M.A. Ox. Lectr.
Whitham, Miss E., M.A. Ox. Lectr.

History, Ancient, v. Classics

Law
Murray-Aynsley, C.M., B.A., LL.B. Camb., Bar.-at-Law Lectr.
Charlesworth, J., LL.D. Lond., Bar.-at-Law Asst. Lectr.

Law, Commercial
Fenwick, C. B., M.A. Ox., Bar. at-Law Lectr.

Mathematics

Jessop, C. M., M.A. Camb. Prof.
Caunt, G. W., M.A. Camb. and Durh., M.Sc. Reader.
Colborne, D. C., M.A. Camb. Lectr.

Mathematics, Applied, and Math. Physics

Havelock, T. H., M.A. Camb., D.Sc., F.R.S. Prof.
Goldsbrough, G. R., D.Sc. Reader in Dynamical *Astronomy* and Lectr. in Applied M.
Miles, W. H., B.A. Ox. Lectr.

Metallurgy

Smythe, J. A., D.Sc., Ph.D Gott. Wm. Cochrane Lectr.
Pearson, C. E., B.Met. Sheff. ,,

Military Science [Lectr.

Gadd, Maj. H. R., D.S.O., M.C.

Mining

Poole, Granville, B.Sc. Birm., M.I.E.E., F.G.S. Milburn Prof.
Whetton, J. T., B.Sc. Leeds Lectr.
Gilmour, J., M.B., M.S. Lectr. in *First Aid.*

Modern Languages

Latham, A. G., M.A. Lond. and Durh. Prof.
Macgregor, Lilias, M.A. Edin., D. de l'U. Gren. (Fr. and Ger.) Lectr.
Vallette, Jean, B. ès L. Paris (Fr.) Lectr.
Tomlinson, Mme. Part-time Lectr.
Rees, J. W., M.A. Ox., B.A. Wales (Spanish) Lectr.

Music

Whittaker, W. G., D.Mus., F.R.C.O Lectr. and Reader in Choral M.

Naval Architecture

Welch, J. J., D.Sc., M.I.C.E., M.I.N.A. Prof.
Alexander, F. H., M.Sc., M.I.N.A. Reader.

Philosophy, Mental and Moral

Ferguson, A. S., M.A. Ox. and St. And. Prof.
Alderson, Mrs., M.A. Aberd. Lectr.

Physics

Stroud, H., M.A. Camb. and Durh., D.Sc. Lond. and Durh., F.Inst.P., M.I.E.E. Prof.*
Todd, G. W., M.A. Camb., D.Sc. Birm., M.Sc., F.Inst.P. Prof. (Expl. P.).
Bullerwell, J. W., M.Sc. Lectr.
Lunnon, R. G., M.A., B.Sc. Lond., M.Sc. Lectr.
Wood, J. F., M.Sc. Lectr.
Darbyshire, O., M.Sc. Manc. ,,

Religious Knowledge

Fletcher, Rev. M., M.A. Camb. and Durh., M.Sc. Lectr.
Fyfie, Rev. D., M.A. Edin. Lectr.

Veterinary Science

Howie, G., F.R.C.V.S. Adviser.

Zoology, v. also Agric. [Prof.*

Meek, A., B.Sc. St. And., D.Sc.
Peacock, A. D., M.Sc. Lectr.
Jorgensen, Olga, M.Sc. Lectr.
Harrison, J. W. H., D.Sc. Lectr.
Storrow, B., M.Sc. Naturalist at Marine Lab.
Gill, R. A., B.Sc. Bio-Chemist at Marine Lab.

University Extension

Tutors: P. Ford and E. D. M'Callum (Econ.); W. G. Whittaker (Music); The Regr. (Psychology); T. Dixon Rutherford, M.A.; H. M. Spink, M.A., B.Sc. (Geog.); S. Middlebrook, B.A. (Mod. Hist.); Miss G. E. M. Jebb (Econ.); J. Lochhead (Engl.); Mrs. Alderson (Psychology); J. W. Turner, B.A. (Engl.); F. G. Thomas, M.A. (Engl.). Hon. Secs. to Jt. Committee: P. Ford, B.Sc.

* Also in Coll. of Med.

GENERAL INFORMATION (see also p. 66)

LIBRARY, 47,000 vols. Access to Lit. and Philos. Society's 100,000 vols., and to library of N. of England Inst.M.M.E. Scientific periodicals subscribed for in co-operation with City Public Library. LABORATORIES with special facilities for research in Engineering and Hydraulics; special branches of Chem., Physics, and Agric.; Marine Biology (Dove Marine Lab., Cullercoats).

The Agric. Dept. controls and uses for teaching and research in Agric., Dairying, and Forestry several County and Crown estates, including Cockle Park (Northumberland) Agric. Exptl. Station.

ADMISSION. See Appendices XXI. and XXIII. For admission to study for the College Diploma (i.) in Agric., Mining, or Commerce, or for the Certificate in Fine Art, no regular entrance examn. is required; (ii.) in Engineering or Naval Architecture an entrance examn. must be passed unless the student has passed some equivalent examn. (School Certificate standard in Extra Maths., Mechanics, Physics, and Chemistry); (iii.) in Fine Art an entrance examn. in English, and either French, or German, or Spanish is prescribed.

Complete COURSES for the Arts, Science, Law, and Commerce degrees and the Educn. Diploma of the Univ. The Applied Science courses are in Agriculture, Engineering (Mechanical, Marine, Civil, or Electrical), Naval Architecture, Mining, and Metallurgy. The Teachers' Training Dept. trains for both Elementary and Secondary School Work.

College Diplomas in Architecture (5 yrs.), Engineering (3 yrs.), Naval Architecture (3 yrs.), Mining (2 yrs.), Agric. (3 yrs. of 2 terms each), Fine Art (3 yrs.), Commerce (2 yrs.). College Certificate in Fine Art (3 yrs.). Short courses are provided in Agric. (6 weeks and 6 months) and Naval Architecture (6 months).

A *Tutorial System* is established in all Faculties. Each student is assigned on entry to a tutor, who is responsible for advising him on his course and generally looking after his interests.

FELLOWSHIPS, ETC. £300 for one year, open to a graduate in Science or Commerce; £150 for two years, open to a graduate of any Faculty; £150 for one year, open to a graduate in Science; £150 for one year, open to a graduate in Arts; £75 (two) studentships for one year, open to graduates of any Faculty. The total amount available for post-graduate fellowships, etc., is about £1,400 p.a.

RESEARCH FUND established in 1923 with endowment of £12,000. Administered by Standing Committees which allocates the interest of the fund as grants in aid of specific investigations by trained workers rather than for training persons in research.

FEES for Tuition for B.A. or B.Com., £30 p.a.; B.Sc., £35 p.a. (in Engin., etc., £40); Diploma in Agric., £22 : 10s.; in Teaching, £35; in Engin., etc., £40; in Fine Arts, £16; in Commerce, £5 : 10s. per subject (in evening classes, £3 a subject). Examns. for B.A. or B.Sc., £7; Students' Societies (men), £2 : 2s., women, £1 : 5s. Registration Annual (Degree students and some others), £2.

UNIVERSITY EXTENSION. Public lectures in the College include the annual Earl Grey Memorial and W. H. Charlton lectures, occasional lectures and short courses (winter programme issued in Oct.), lectures in French (Alliance Française), and popular Saturday evening lectures. Short courses in various centres in Agriculture and Forestry. Tutorial classes in 23 centres (most of the tutors are regular members of college staff).

PUBLICATIONS. *Calendar* (Sept.), 2s. 6d.; *Annual Report* (Oct.); *The Northerner* (Students'), 5 issues annually.

THE YEAR 1924–25

BENEFACTIONS. £10,000 (anonymous) for new Students' Union (making £30,000 in all from the same donor); three acres of land (anonymous) adjoining Athletic Ground; £250 from G. E. Henderson for purchase of a special botanical library.

NEW BUILDINGS. Students' Union, Library, heating station and Laboratory for Steam Engineering, completed.

RETIREMENT. Prof. M. C. Potter (Botany), succeeded by Prof. Bews from Natal Univ. Coll., S. Africa. RESIGNATIONS. Prof. W. N. Haworth, on appointment to Chair of Chemistry in Univ. of Birmingham; A. B. Taylor, on apptmt. to Chair of English in Univ. of Tasmania; D. H. Findlay, on apptmt. to District Lectureship in Agric., Yorkshire; J. F. Duff (Education), on apptmt. to Inspectorship of Schools under Northumberland County Council; Miss E. M. Meek (Bio-Chemist), on marriage; Prof. G. H. Thomson on apptmt. to chair of Educn., Edin.

EXTENSION WORK. Public lectures in the College included: a series in French under the auspices of the Alliance Française; a series on "Civic Development, with special reference to Tyneside"; The Earl Grey Memorial Lecture on "The Structural Units of the Material Universe," by Dr. F. W. Aston, F.R.S.; the W. H. Charlton Memorial Lecture on "Form," by F. Ernest Jackson; and a series of popular Saturday evening lectures throughout the winter by various members of the staff.

STUDENTS. Total, full-time, 707 (including women—290); preparing for a first degree 495 (w.—187), graduate 98 (w.—39). Part-time preparing for degree—5. Occasional 481 (w.—136). Tutorial class students 396 (w.—165). Degrees obtained: M.A. 20 (w.—8); B.A. 41 (w.—34); D.Sc. 4, Ph.D. 5, M.Sc. (Pure Science) 20 (w.—4); B.Sc. (Pure Science) 63 (w.—19; M.Sc. (Applied Science) 7, B.Sc. (Applied Science) 53, B.Com. 3.

UNIVERSITY OF LEEDS

VISITOR—H.M. THE KING.

CHANCELLOR—His Grace the DUKE OF DEVONSHIRE, K.G., G.C.M.G., G.C.V.O., LL.D.

PRO-CHANCELLOR—E. G. ARNOLD, LL.D.

VICE-CHANCELLOR—J. B. BAILLIE, O.B.E., M.A. Camb., D.Phil. Edin.

PRO-VICE-CHANCELLOR—Prof. J. KAY JAMIESON, M.B., C.M.

TREASURER—Hon. R. E. BECKETT.

REGISTRAR—A. E. WHEELER, M.A.

ACCOUNTANT—E. J. BROWN, B.Com.

CLERK TO THE SENATE—F. T. BAINES, B.A.

DEAN OF WOMEN STUDENTS—Miss A. SILCOX, B.Sc. Lond.

LIBRARIAN—R. OFFOR, B.A.

PROFESSORS, LECTURERS, ETC.

Agriculture, v. also Vet. Hyg.
Seton, R. S., B.Sc. Edin. Prof.
McMillan, J. A., B.Sc. Edin. Lectr.
Robertson, G. C. A., M.A., B.Sc. Aberd. Lectr.
McGregor, J., B.Sc. Glas., N.D.A., N.D.D. Lectr. (Dairy Husbandry).
Paton, A., B.Sc., N D A., N.D.D. Asst. Lectr. (Dairy Husbandry).
Ruston, A. G., B.A., B.Sc. Lond., D.Sc. (Agric. Econ.) Lectr.
Preston, H., B.Sc. Asst. Science Tutor.
McMillan, R., B.Sc. Asst. (Farm Costings).
Anderson, O., B.Sc. Asst. (Farm Costings).
Galt, A. S. (Hortic.) Lectr. & Organizer.
Parton, F. W. (Poultry) Lectr.

Asst. Lectrs. and Demrs.:
Pilling, G. F., B.A. Camb., N.D.A.
Nicoll, W. B., B.Sc.

Dist. Lectrs.:
Thompson, H., B.Sc. Manc., B.Sc.
Strachan, J., M.A., B.Sc. Aberd., N.D.A.
Thompson, J. H., B.Sc. Durh.
Robb, J., B.Sc. Aberd.
Findlay, D. H., B.Sc., N.D.A., N.D.D.
Jardine, W. D. D., B.Sc., N.D.A., N.D.D.
9 Instrs. and Asst. Instrs. in Dairying, Hortic., Poultry, and Farriery

Agric. Botany
Millard, W. A., B.Sc. Bris. Lectr.
Jones, A. Powell, M.Sc. Asst. Lectr.
Burr, S. Asst. Lectr.
Chalmers, C. H., B.Sc. Edin., N.D.A. Demr.
Hunter, R. E., B.Sc. Demr.
Burgess, R., B.Sc. Demr.

Agric. Chemistry
Comber, N. M., D.Sc. Lond., A.R.C.S., F.I.C. Prof.
Saint, S. J., B.Sc. Lond. Asst. Lectr.
Milne, G., B.Sc. Asst. Lectr.
Jones, H. Trefor, M.Sc., A.I.C. Asst. Lectr

Agric. Zoology
Taylor, T. H., M.A. R.U.I. Lectr.
Barker, A. S., B.Sc., N.D.A. Asst. Lectr.
James, H. C., B.Sc. Edin., Ph.D. Manc., N.D.A., N D.D. Asst. Lectr.

Anatomy [Prof.
Jamieson, J. Kay, M.B., C.M. Edin. (Dean of Med. Fac.)
Cave, A. J. E., M.B , Ch.B. Manc. Demr.
Inkster, R. G., M.B., Ch.B. Edin.
Morton, W. C., C.B.E., M.A., M.D. Edin. (H.).
Richardson, A., M.B. Lond., F.R.C.S. (C.) (H.).
Tasker, R B., L.D.S., Hon. Demr. in A. for Dental Students.

Bio-Chemistry, v. Physiol.

Botany [Prof.
Priestley, J. H., B.Sc. Lond., F.L.S.
Wager, H., D.Sc., F.R.S. (Mycology) Hon. Lectr.
Walker, N. (Morphol.) Lectr.
Pearsall, W. H., D.Sc. Manc. Reader.
Ewing, J., M.A., D.Sc. Aberd. Asst. Lectr.
Scott, Lorna I., B.Sc. Lond. Asst. Lectr.
Tetley, Ursula (R.).
Rhodes, E., Ph.D., M.Sc. Demr. (Plant Physiol.).
Grist, Mrs., B.Sc. Lond. (H.).
Tupper-Carey, Miss R. M. Research Asst.

Chemistry, v. also Technology-Colour Chemistry.
Whytlaw-Gray, R. W.. O.B.E., Ph.D. Prof.
Lowson, W., B.Sc. Lond., B.Sc., F.I.C. (Analyt. C.) Lectr.

Asst. Lectrs. and Demrs. :
Topley, B., B.A. Ox.
Gregory, J. C., B.Sc., F.I.C.
Clark, C. H. D , B.Sc. Lond.
Hume, J., B.Sc , A.I.C.
Nonhebel, G., B.A. Ox. Demr.
Whitaker, H., M.Sc. (R.).

Chemistry, Physical
Dawson, H. M , B.Sc. Lond , Ph.D.
Gies., D.Sc. Prof.
Burr, Mrs. M S., D.Sc. Asst. Lectr. & Demr.
2 Student Demrs.

Chemistry, Organic [Prof.
Ingold, C. K., D.Sc. Lond., F.R.S.
Dutt, P. K., M.A. Calc., M.Sc., A.I.C. Asst. Lectr. & Demr.
Wightman, W. A., M.A. Ox. Demr.
Baker, J. W., M.Sc., Ph.D. Lond. Demr.
Goss, F. R., Ph.D. Lond. (R.).
Ingold, Mrs. C. K., Ph.D. Lond (H.).

Classics [Prof. (Greek).
Ormerod, H. A., M.A. Ox.
Connal, B. M., M.A. Ox. Prof. (Latin).
Bibby, E. E., M.A. Camb. Lectr.
Raitenbury, R. M., B.A. Camb. Asst. Lectr.

Commerce, v. Economics

Dental Science, v. *infra*

Economics
Jones, J. H., M.A. Wales Prof.
Shimmin, A. N., M.A. Manc. Lectr.
Dower, R. S., M.A. Camb. (Social Organization) Lectr.
Taylor, J. R., M.A. (Ec. Hist.) Lectr.
McCarmick, A. (Acctcy) Lectr.
Dickinson, H. D., B.A. Camb. Asst. Lectr.
Wilson, Miss Tutor.

Education
Strong, J., C.B.E., M.A. Lond., LL.D. St. And. Prof.
Welpton, W. P., B.Sc. Lond. Lectr.

(C.) = Clinical Lectr. (H.) = Hon. Demr. (R.) = Research Asst.

Monahan, A. J., M.A. Lectr.
Wynn-Jones, Ll., Ph.D. Leip. (Expl. E.) Lectr.
Curtis, S. J., M.A. Lond. Asst. M. of Method.
King, W. Norman, M.Sc. Asst. Lectr.
Blackburn, Eliz. M., M.A. Lectr. and M. of Method.
Robson, Winifred F., M.A. Liv. Asst. M. of Method.
Holgate, Jane, B.A. Asst. Lectr.
Newcomb, Edith, M.A. Asst. Lectr.
..... Art Teacher.
Hoggett, T. J., Mus.B. Durh. Music, etc.

Engineering, Civil and Mech.
David, W. T., M.A., Sc.D. Camb., D.Sc. Wales, M.I.C.E., M.I.Mech.E. Prof.
Gilchrist, J., B.Sc. Edin., A.M.I.C.E. Lectr.
Naylor, T. M., M.Sc. Manc., A.M.I.C.E., A.M.I.Mech.E. Asst. Lectr.
Swift, H. W., M.A. Camb., B.Sc., A.M.I.Mech.E. Asst. Lectr.
Colles, C., B.Sc. Manc., A.M.I.Mech.E. Asst. Lectr.
Davies, W., B.Sc. Wales Demr.
Kelly, H. C., B.Sc.Tech. Manc. Demr.
Richardson, S. G. Demr.

Engineering, Elec.
French, W. E., A.M.I.C.E., M.I.E.E. Lectr.
Stuart, W. S., B.Eng. Liv., M.Eng., A.M.I.E.E. Asst. Lectr. & Demr.

English Lang. and Lit.
Abercrombie, Lascelles, M.A. Liv. Prof. (Lit.).
Tolkien, J. R. R., M.A. Ox. Prof. (Lang.).
Cowling, G. H., M.A. Reader.
Gordon, E. V., M.A. Ox. Lectr.
Childe, W. R., M.A. Ox. Asst. Lectr.

French (and Romance Philol.)
Barbier, P., M.A. Lond. Prof.
Gunnell, Doris, M.A., D. de l'U. Paris Lectr.
Soltau, R. H., M.A. Ox. Lectr.
Murray, Jessie, M.A. St. And. Asst. Lectr.
Inebnit, J. P. Asst. Lectr.

Geography
Fawcett, C. B., B.Litt. Ox., M.Sc. Lond. Reader.
Williamson, A. V., B.A. Liv. Asst. Lectr.
Morgan, M. Kathleen, B.Sc. Wales Asst. Lectr.

Geology
Gilligan, A., D.Sc., F.G.S. Prof.
Versey, H. C., M.Sc. Lectr.
Hudson, R. G., M.Sc. Lond., F.G.S. Asst. Lectr.

German Lang. and Lit.
Gough, C. E., Ph.D. Basle Prof.
Caldwell, Mary C., B.A. Asst. Lectr.
Scott, Alice, M.A. Lond. Asst. Lectr.

Hebrew
Blomfield, W. E., B.A., D.D., at Rawdon Coll.

Histology, v. Physiology

History
Grant, A. J., M.A. Camb. Prof.
Sellers, Maud, D.Litt. Reader.
Thompson, A. Hamilton, M.A., D.Litt., F.S.A. Prof. (Mediæval H.).
Dainton, A. H., M.A. Ox. Asst. Lectr.
Richardson, G. W., B.A. Asst. Lectr.

History, Eccles. (Recognized Teacher)
Underwood, A. C., M.A., B.Litt., B.D., at Rawdon Coll.

Law [Prof.
Hughes, J. D. I., M.A., B.C.L. Ox.

Lectrs. :
Haggen, G. L., M A. Ox , B.C L.
Burnham, R. E., B.A., B.C.L. Ox. Lectr.
Jennings, W. Ivor, B.A. Camb. Lectr.

Mathematics
Milne, W. P., M.A. Camb., D.Sc. Aberd., M.A. Prof.
Brodetsky, S., M.A. Camb., Ph.D. Leip. Prof. (Appd. Maths.).
Berwick, W. E. H., M.A. Camb. Reader.
Gilham, C. W., M.A. Camb., B.Sc. Lond. Lectr.
Smeal, G., B.Sc. Melb. (Graphics, etc.) Lectr.
Stoneley, R., M.A. Camb. Asst. Lectr. in Appl. M.

Medicine and Surgery, v. *infra*

Metallurgy, v. Tech.

Mining
Ritson, J. A. S., D.S.O., B.Sc. Durh., M.I.Min.E. Prof.
Brown, T., M.Sc., M.I.Min.E., A.M.I.C.E. Lectr. in Mine Surveying
..... Lectr. in Met. M. and Ore Dressing.
Bentham, J. Colliery Electrician.

Philosophy
Gillespie, C. M., M.A. Ox. Prof.
Hallett, H. F., M.A. Edin. Lectr.

Physics
Whiddington, R., M.A., D.Sc. Camb., F.R.S. Cavendish Prof.
Allen, A. O., M.A., B.Sc. Lond., A.R.C.S. (Optics) Lectr.
Stoner, E. C., B.A., Ph.D. Camb. Lectr.

Asst. Lectrs. & Demrs. :
Ewles, J., M.A. Camb.
Long, F. A., B.Sc. Lond.
Pike, S. R., B.A. Ox.
Brown, D., B.Sc. Bris. Demr.
3 Asst. Demrs.

Physiology and Histology
Shanks, W. F., B.Sc., M.B., Ch.B. Glas. Prof.
Winfield, G., M.A. Camb. Lectr.
..... Lectr.
..... Demr. in P.
Wormall, A., B.Sc. (Bio-Chem.), A.I.C. Demr.
..... Demr.
Flint, E. R., M.B , Ch.B., F.R C.S. (H.) (C.).

Russian Lang. and Lit.
..... Prof.
Kolni-Balozky, J. Lectr.

Russian History and Music
Frere, W. H., D.D. (H.).

Spanish Lang. and Lit.
..... Prof.
Penzol, P. Lectr.

Technology, v. *infra*

Veterinary Hygiene
Bowes, H. G., F.R.C.V.S. Lectr.

Zoology, v. also Agric. [Prof.
Garstang, W., M.A., D.Sc. Ox.
Percival, E., B.Sc. Lectr.
King, Mrs. W. O. R., B.Sc. Asst. Lectr. & Demr.
Brown, F. J., M.Sc. Asst. Lectr.
Swift, Mrs. H. W., M.Sc. Liv. (H.).
Dymond, Muriel G., B.Sc. (R.).

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics
Rowling, S. T., M.B. Vict., M.D. Lectr.

Bacteriology, v. Path.

Forensic Med.
Eurich, F. W., M.D., C.M. Edin. Prof.

Gynæcology, v. also Obst.
Gough, W., B.Sc., M.B., B.S. Lond., F.R.C.S. Lectr. (C.).
..... Demr. (H.) (C.).

(C.) = Clinical Lectr. (H.) = Hon. Demr. (R.) = Research Asst.

Infectious Diseases
Pearson, A. E., M.R.C.S., L.R.C.P. (C.).

Materia Med., v. Therap.

Medicine and Clin. Med.
Telling, W. H. Maxwell, M.D. Lond., F.R.C.P. Prof.
Watson, G. W., M.D. Lond., F.R.C.P. (C.) Prof.
Vining, C. W., M.D. Lond., D.P.H. Lectr.
Moll, H. H., M.D., M.R.C.P. Med. Tutor and Registrar.

Mental Diseases
Bolton, J. S., M.D., D.Sc. Lond., F.R.C.P. Prof.

Obstetrics and Gynæcology
Oldfield, C., M.D. Lond., F.R.C.S. Prof.
Young, W. M., M.A., M.D. Glas. (C.).
Adamson, Mrs. R., M.D., B.S. Lond. Lectr. (Obst.) (C.).
Croft, E. O., M.D. Durh. (C.).
Theobald, G. W., B.A., M.B., B.Chir. Camb. Tutor.

Ophthalmology
Lee, H., B.A., M.B., B.Ch. Camb., F R C.S. (C.) Lectr.
Lodge, S. D., F.R.C.S. (C.) Lectr.

Otology
Bain, E. W., M.B., B.S. Lond., F.R.C.S. (C.) Lectr.
Munby, W. M., Ch.M. Edin., F.R.C.S. (C.).

Pathology & Bacteriology [Prof.
Stewart, M. J., M.B., Ch.B. Glas. (C.).
McLeod, J. W., O.B.E., M.B., Ch.B. Glas. Brotherton Prof. of B.
Fowweather, F. S., M.Sc., M.B., Ch.B. Liv. Lectr. (Chem. Path.).
Gordon, J., M.B., Ch.B. Lectr. in B.
Sutherland, P. L., M.B. Glas., D.Sc. Lectr. (Path. of *Industrial Diseases*).
Taylor, A. L., M.B., Ch.B. Demr.
Hickman, Miss E. M., M.Sc., M.D. Demr.
Duthie, Miss G. M., M.D. Manc.
Cattley, R., M.B., C M Edin., B.Sc., D.P.H. Camb. Hon. Fellow.
Bedford, T. H. B., M.Sc., M.B., Ch.B. (H.) in Med. P.
Burrow, J. le F. C., M.B. Edin. (H.) in Med. P.
Coupland, J. A., M.B., B.S. Lond., F.R.C.S. (C.) (H.) in Surg. P.
Stewart, Mrs., M.B., B.S. Lond. (H.).

Pharmacology
..... (H.).

Pharmacy, v. Therap.

Public Health, v. also Path.
Jervis, J. J., M.D. Edin., D.P.H. Lond. Prof. of P.H. Admn.
..... Demr. (H.).

Radiology and Electro-Therapeutics [Lectr.
Scargill, H. B., M.B., B.S. Lond.
Cooper, M. G., B.A., M.D. Belf. Lectr.

Surgery and Clin. Surg.
Moynihan, Sir Berkeley G. A., Bart., K.C.M.G., C.B., M.S. Lond., F.R.C.S. Prof.
Coupland, J. A., M.B., B.S. Lond., F.R.C.S. (H.).
Symons, H. W., M.B., Ch.B., F.R.C.S. Clin. Asst.
Chamberlain, D., F.R.C.S., M.B., Ch.M. Clin. Asst.
Daw, S. W., M.B., B.S. Lond., F.R.C.S. Lectr. in Orth. S. (C.).

(C.) = Clinical Lectr. (H.) = Hon. Demr. (R.) = Research Asst.

Braithwaite, L. R., M.B. Manc., F.R.C.S
Director of Surg. Research (C).

Surgery, Clinical
Collinson, H., C.B., C.M.G., D.S.O., T.D, M.B., M.S. Lond., F.R.C.S. Prof.
Dobson, J. F., M.S. Lond., F.R.C.S. Prof.
Moir, P. J., M.C., M.B., Ch.B., F.R.C.S. Lectr. (C.).

Therapeutics, Pharm., and Mat. Med.
Veale, R. A., B.A. Ox., M.D. Lond., F.R.C.P.
((C.) in Clin. Med.) Prof. of Therapeutics.
Gough, J. H. (P. and M.M.) Demr.

Vaccination
Greaves, F. W. M., M.B. Manc., D.P.H. Instr.

Venereal Diseases
Bibby, J. P., M.B. (C.).

Dental Science

Dental Anatomy and Physiology
Mawer, J. W., L.D.S. Lectr. & (C.).
Crawford, J. K., L.D.S. (H.) (C.)

Dental Mechanics
Rippon, C., L.D.S. Lectr.
Watt, G. V., L.D.S. Tutor

Dental Metallurgy
Lowson, W., B.Sc. Lond., B.Sc., F.I.C. Lectr.

Dental Pathology & Bacteriology
Child, C. H., M.B.E., D.D.S. (H.).

Dental Radiology
Scargill, H. B., M.B., B.S. Lectr.

Dental Surgery
Phillips, G. A., L.D.S.
Lectr. & (C.).
Hey, S. D., L.D.S. (Operative D.S.) Lectr. & (C.).
The Lectrs. in Dent. Anat. and Physiology, Dent. Mech., and Dent. Metallurgy
Lectrs. and (C.).
Leigh, P. T., L.D.S. (C.).
Marston, W., L.D.S. (C.).
Saville, D., L.D.S. (C.).
Thorburn, W. S., L.D.S. (C.).
Iles, G. D., L.D.S. (C).
Wilkinson, G. L., L.D.S. (C.).
Harris, W. S., L.D.S. (C.).
Sykes, J. G., B.Ch.D. Tutor.

Hon. Anæsthetists:
Legge, J. H., M.B, B.S., B.Sc. Lond.
Sykes, W. S., M.D.
3 Hony. Clin. Tutors

Dentistry, Clinical
Wells, J., L.D.S. Demr.
Miller, C. H., L.D.S. Durh. Prosth. Demr.

Technology, v. also Agr., Engin., Mining

Coal, Gas, and Fuel Industries with Metallurgy
Cobb, J. W., C.B.E., B.Sc. Lond., B.Sc., F.I.C. Livesey Prof.
Hodsman, H. J., M.B.E., M.Sc., F.I.C. (Gas Chem.) Lectr.
Houldsworth, H. S., M.Sc. (Refractory Materials) (R.) & Asst. Lectr.
Summers, P. F., A.R.S.M. (Metall.) Asst. Lectr.

Research Chemists:
Wood, J. W., M.Sc. Tech. Manc., A.I.C. (Gas Research).
Parker, A., D.Sc. Birm., M.Sc., F.I.C. (Gas Research).
Kerr, H. (Gas Research), A.I.C.
Monkhouse, A. C., Ph.D., A.I.C. (Gas Research).
Howarth, G. B., M.Sc., A.I.C. (Gas Research).

(C.) = Clinical Lectr. (H.) = Hon. Demr. (R.) = Research Asst.

Hoffert, W. H., M.A., B.Sc. Ox., A.I.C. (Benzole Research)
Claxton, G., M.Sc. (Benzole Research).

Colour Chemistry and Dyeing

Perkin, A. G., F.R.S., F.I.C. Prof.
Forster, R. B., A.R.C.S.I., Ph D., D.Sc., F.I.C. Lectr. in Colour Chem.
King, P. E. (Dyeing) Lectr.
Cross, E. J., B.Sc. Asst. Lectr.

Leather Industries

McCandlish, D. M.Sc. (Applied Chem.) Prof.
Atkin, W. R., M.Sc. Lectr.
Thompson, F. C., M.Sc. Lectr.
Salt, H., M.Sc., A.I.C. Demr.
2 Assts.

Procter International Research Laboratory:

Procter, H. R., D.Sc., F.R.S., F.I.C. Hon. Director.
Thompson, F. C., M.Sc. (R.).

Textile Industries

Barker, A. F., M.Sc. Prof.
Hollis, T. Lectr.
Yewdall, A. Lectr.
Pickles, F. Lectr.
Speakman, J. B., M.Sc. Manc. Lectr.
Farley, W. A. Asst. Lectr.
Priestley, G. Asst. Lectr.

University Extension

Staff Tutors: Dainton, A. H., M.A. Ox.; Gibson, G. W., M A.; Shimmin, A. N., M.A. Manc.; Stewart, D., M.A. N.U I.; Taylor, J. R., M.A. Edin.; Walker, N.

(R) = Research Asst.

AFFILIATED COLLEGES

College of the Resurrection, Mirfield (Warden—G. Rees, M.A.) and Rawdon College (Principal—W. E. Blomfield, B.A., B.D.). Students are exempt from attendance at the Univ. in the first of the 3 yrs. of study for the B.A. degree.

Technical College, Huddersfield (Prin.—J. F. Hudson, M.A., B.Sc.). Similar exemption for B.A., B.Sc. (including Engin.), and M.B. and Ch.B.

Diocesan Training College, York. Similar exemption for the B.A. and B.Sc.

Printing Department of the Leeds Central Technical School. Affiliation granted with a view to the recognition of classes as part of the course for the degree of B.Com.

GENERAL INFORMATION

The Leeds School of Medicine, founded 1831, and Yorkshire College, established as a College of Science in 1874, were united in 1884. The College formed part of the Victoria Univ. from 1887 to 1904, when a Univ. was established by Royal Charter in the city of Leeds.

Library, including that of the Medical School, about 112,000 vols. and pamphlets. Besides the General Library, there are separate rooms devoted to Science, English, French, German, Classics, Economics, Philosophy, History, Law and Music. Special collections: (*a*) MSS. about Broad Cloth Act of 1740 and illustrating developments in textile industry about 1800; (*b*) 500 vols. in French on Great Britain, printed before 1801; (*c*) 264 vols. contemporary records (Journal Officiel, newspapers of Metz, Strasbourg, and Nancy, etc.) of political events in France during 1870 and 1871.

MUSEUMS: Anatomy, Dyeing, Materia Med., Path., Textile, Zool. LABORATORIES: Agricultural Chemistry, Botany, Chemistry, Colour Chem. and Dyeing, Engin. (Elec., Civ., Mech.), Geol., Leather Industries (including Procter Internat. Research), Maths., Metallurgy, Mining, Path. and Bacteriology, Physics, Physiol., Textile (116 looms), Zool. OBSERVATORY, 18¼" reflector telescope. FARM, 312 acres, including Dairy School; Research farm, 350 acres, near Scarborough. HOSPITALS available for Clinics: Infirmary (520 beds) and several others; Asylum (2000 inmates).

FACULTIES. Arts (including Economics and Law), Science, Technology [including Agric., Coal Gas and Fuel with Metallurgy, Colour Chemistry and Dyeing, Engineering (Civ., Elec., Mech.), Leather Industries, Mining, Textile Industries], Medicine (including Dentistry). *Deans*: Profs. Strong (Educn.), Whiddington (Physics), McCandlish (Leather), Jamieson (Anat.).

In connexion with each of the technological departments there is an Advisory Committee, which includes representatives of the industry concerned.

MATRICULATION. See Appendices XXI. and XXIII. An *Overseas Students'* Committee has been appointed.

DEGREES. Obtainable after a 3 yrs.' course starting from matricn.—B.A., B.Sc. (Honours degree usually 4 years), B.Com. (which may be taken with an Applied Science as one of the principal subjects: 3 yrs. for degree, or 4 yrs. including Diploma of Printing Dept. of Leeds Tech. Sch.); LL.B.; after 5 yrs., M.B., Ch.B., B.Ch.D.

Subject to a minimum attendance in this Univ. of 2 yrs., members of other Univs. requiring residence as a condition of graduation may be permitted to count their studies and examns. (other than the Final examn.) therein towards graduation in Leeds.

Mining students receive practical instruction in mines under arrangements made with local owners, but the courses are not intended to supersede the usual apprenticeship.

Honours students of (1) French and (2) German normally spend the 3rd term of the 2nd year at (1) the Univ. of Caen, (2) a Univ. where the medium of intercourse is German.

Honours in Gas Engineering or Fuel and Metallurgy involve 1 yr. of research or special study after taking the ordinary degree; in Leather Manuf., 4 yrs.' study.

Supplementary Textile studies may be combined with a B.A. or B.Com. course. Any of the Tech. subjects may be taken in a B.Sc. course. The Law Dept. prepares students for the Bar and Solicitors' examns. as well as for the Univ. degrees.

HIGHER DEGREES. M.A., LL.M., M.D., Ch.M., 1 yr.; M.Ed., M.Sc, 2 yrs. (for holders of Hons. B.Sc., 1 yr.) after the bachelorship. Graduates of approved Univs. (all the chief Univs. of the world, including institutions recognized by the Assocn. of Amer. Univs., v. App. XXV.) may obtain the M.A., Ph.D. (v. p. 17), or M.Sc. by 2 yrs. of research. Masters of Arts or Science of this Univ. may obtain the Litt.D. or D.Sc. 6 yrs. after the bachelorship.

Graduates of other Univs. who have been admitted to degrees of equal or similar rank in Leeds may, in proceeding to higher degrees, count their standing as graduates from the date of original graduation.

DIPLOMAS. In Education (grads.) or Ed. Admn., 1 or 2 yrs. In Social Organization and Public Service, 2 yrs. In Engin., Fuel and Metall., Dyeing, Textiles, Leather, 3 yrs., reducible under certain conditions to 2. In Gas Engin. or Fuel and Metall., special for graduates, 1 yr.; for apprentices,

part-time, 4 yrs. In Colour Chem. and Dyeing, for apprentices, part-time, 5 yrs. In Public Health, 12 mos. In Psych. Med., 6 mos. In Nursing, involving 4 yrs.' hospital training and 3 mos.' lectures. In Dent. Surg., 4 yrs., including 2 in Univ. In Commerce, 1 yr. (postgrad.).

Agric. Students are prepared for the National Diploma.

EVENING COURSES for advanced students in Technological subjects are conducted in co-operation with the Leeds and West Riding Education Committees.

FEES. Matricn., £2. Registration, £2. Composition fees for tuition (including Union): Arts, £33 a session; Science, £41; Technology, £45; Agric. (other than degree students, who pay the Technol. fee in the 2nd and 3rd yrs.), winter course, £20, summer course, £10; Law courses, 11 gs. a session. Course for Dipl. in Educn., £42 p.a.; Dipl. in Social Organization, £26 p.a. Medicine: complete course for M.B., including hospl. practice, £215. Dentistry (including hospl. practice and pupilage): Dipl., £234; Degree, £252. Research fee, £12 a session. Examns.: Arts, Science, etc., £6; Medicine (including graduation), £18; Dentistry, B.Ch.D., £16; L.D.S., £16. Graduation fee, £7.

SCHOLARSHIPS, ETC., FOR GRADUATES. Fellowships, £200 for one year, renewable, for research in Gas, and £100, renewable, in Col. Chem.; £150 for 3 yrs. for Textile Research (preference to graduates in Science or Tech. and to natives or residents of Bradford, but not restricted to members of Leeds Univ.); also £150 for 2 yrs. for research and advanced study; £150 for 2 yrs. for research in English, or History, or Economics; £70 Scholp. for research in Arts Faculty; £125 for higher Humanistic study, for graduates of Leeds or Sheffield; £45 for advanced study in Greek or Latin; £60, Colour Chem. and Dyeing; £20 (three), in Textile Dept.; £25, Forensic Med. and Hygiene.

RESIDENCE. One hostel for 120 men and 4 for women. Fees, men £64, women £54 to £63 per session of 32 weeks. A site of 160 acres on the outskirts of the city has been acquired for hostels for men and women students.

An OLD STUDENTS Assocn. was formed in 1923.

UNIVERSITY EXTENSION. Lecture courses and Tutorial classes are provided in co-operation with the Workers' Educnl. Assocn. and Local Education Authorities, and an Annual Summer School in connexion therewith was instituted in 1919.

The Yorkshire Summer School of Geography lasts 2 or 3 weeks. Certificates are granted.

In connexion with the Agric. Dept. a considerable part of the time of lecturers of the Univ. is devoted to work in local centres.

PUBLICATIONS. *Calendar* (Sept.), 4s.; *The Training of Professional Engineers*; Annual Reports of the Univ. and of Tech. Depts.; *Gryphon*, 3s. annually (students' magazine).

THE YEAR 1924–25

BENEFACTIONS. Gifts, amounting to £89: 4s., for the purchase of an Anglo-Norman MS. for the Library; £100 from industrial firms for Leather Industries Dept.; increased grant from the Yorkshire Board of Legal Studies; £3670 from Miners' Welfare Fund for new equipment; £730 for Sadler Fund for assistance of necessitous students; £5000 from Dental Board towards cost of new building; many gifts of machinery, apparatus, etc.

NEW BUILDINGS AND EQUIPMENT. New hostel for 120 men students opened at Devonshire Hall; property purchased for extension of site; temporary annexe to Mining Dept.; temporary extension of Library accommodation, plans made for layout of athletic grounds at Westwood, and provision of new hard tennis courts.

OTHER DEVELOPMENTS. Institution of Honours School in Spanish; Diploma in Educational Administration; Diploma for Teachers of Zoology; Lectures on Local Government. Amendment of Ordinances to permit of recognition of 2 years of study at affiliated institution in preparation for a degree, provided Honours students spend at least 2 years at the Univ. Reorganization of Surgery Department. New posts: Reader in English; Lectrs. in Law, in Statistical Method and Computation, in Dairy Husbandry; Asst. Lectrs. in Agr. Economics, in Dairy Husbandry (2); Demrs. in Organic Chem., in Agr. Botany. Scheme for extension of Univ. buildings and Public Appeal for £500,000.

SPECIAL EVENTS. Jubilee of Yorkshire College and Coming of Age of Univ. celebrated in Dec. 1924. Visits paid to Univ. by Worshipful Company of Clothworkers, Science Masters' Assocn., Soc. of Chem. Industries, Assocn. for Education in Industry and Commerce and others.

HONORARY DEGREES. *LL.D.*—H.R.H. Princess Mary, Hon. Sir A. Stanley, G.B.E., C.B., Rt. Hon. The Earl of Balfour, E. G. Arnold, Alderman P. R. Jackson, Sir B. Moynihan, J. Lowden, Col. S. R. Clarke, W. F. Husband; *Litt.D.*—Hannah Robertson, Herbert Thompson, Sir M. E. Sadler; *D.Sc.*—J. B. Cohen, J. E. Eddison; *M.A.*—G. R. Brench.

UNIVERSITY EXTENSION Courses at 7 centres; Yorkshire Summer School of Geography at Redcar in Aug. (62 students); 369 Agric. and Horticultural lectures at 140 centres in the County, in addition to 9 organized courses of 20 meetings for Farmers, Farmers' sons and Farm workers; 2 organized courses in Horticulture of 20 meetings and a Summer Course of 3 weeks in Poultry Keeping; many public lectures at the Univ.

STUDENTS. — Full-time, preparing for a first degree 1018, including 274 women. Graduate 40 (women, 2); total full-time, 1435 (w.—378). Part-time under-grad., 8 (w.—1); graduate, 8 (w.—1). Occasional, 164 (w.—49). Attending Univ. Tutorial Classes, 748. DEGREES OBTAINED.—B.A., 85 (w.—51); B.Sc., 139 (w.—37); B. Com., 5; LL.B., 10; Ph.D., 6 (w.—1); M.A., 11 (w. 4); D.Sc., 4; M.Sc., 5; LL.M., 1; M.Ed., 4; M.D., 5 (w.—1) M.B., Ch.B., 50 (w.—9); Ch.M., 1.

UNIVERSITY OF LIVERPOOL

VISITOR—H.M. THE KING.

CHANCELLOR—Rt. Hon. EARL OF DERBY, K.G., G.C.B., G.C.V.O., LL.D.

PRO-CHANCELLORS—H. R. RATHBONE, LL.D., M A.; H. WADE DEACON, C.B.E.

VICE-CHANCELLOR—J. GEORGE ADAMI, C.B.E., M.D., F.R.S.

TREASURER—C. SYDNEY JONES, M.A.

REGISTRAR—EDWARD CAREY, LL.B.

BURSAR AND ASSISTANT REGISTRAR—S. PRYCE PARRY, M.A.

LIBRARIAN—J. SAMPSON, M.A., D.Litt.

PROFESSORS, LECTURERS, ETC.

Anatomy [Derby Prof.
Wood, W. H., B.Sc., M.B. Manc.
Douglas-Crawford, D., M.B., C.M. Edin., F.R.C.S. (Applied and Surg. A.) Independent Lectr.
Johnson, W., M.D. Loud. (Applied and Med. A.) Independent Lectr.
Broad, W. H., M.D. (Physical Anthropology) Lectr.
..... Lectr. & Sr. Demr.
2 Hon. Asst. Demrs.

Anthropology, Social
..... Prof.

Archæology, v. also Palæog. and Associated Institutions
Droop, J. P., M.A. Camb. (Classical A.) C. W. Jones Prof.
Peet, T. E., M.A. Ox. (Egyptology) Brunner Prof.
Garstang, J., D.Sc., M.A., B.Litt. Ox., F.S.A. (Methods and Practice of A.) Rankin Prof.
Barnard, F. P., M.A., D.Litt. Ox., F.S.A. (Mediæval A.) Reader.
Newberry, P. E., M.A. (Egyptian Art) Reader.

Architecture, v. also Civ. Design, Engin.
Reilly, C. H., O.B.E., M.A. Camb., F.R.I.B.A. Roscoe Prof.
Budden, L. B., M.A., A.R.I.B.A. Assoc. Prof.
Marshall, J. E., B.Arch., M.S.A., M.R.S.I. (Building Constrn., etc.) Sr. Lectr.
Cole, E. R. F., B.Arch., A.R.I.B.A. (Rendering, etc.) Lectr.
Scott, Sir Giles G., LL.D., R.A., F.R.I.B.A. (Eccl. Archit.) Reader.
Miller, B. A., A.R.I.B.A. (Design) Lectr.
Williams, J. W. (Constrn.) Lectr.
Dougill, W., M.A., B.Arch., A.R.I.B.A. Jr. Lectr.
Allen, C. J. (Modelling) Recog. Teacher.
Sharpe, C. W., A.R.C.A. (Drawing from the Life) Instr.
Smith, H. Tyson Hon. Instr. in Craftsmanship.

Art of the Theatre
Robinson, Lennox Spl. Lectr., 1925.

Astronomy
Plummer, W. E., M.A. Ox., F.R.A.S. Reader.

Bacteriology, v. Med.

Bio-Chemistry [Johnston Prof.
Ramsden, W., M.A., D.M. Ox.
Coope, R., M.D., Ch.B., B.Sc. Lectr.
Crawford, A. C., M.B., Ch.B. Johnston Colonial Fellow.

Book-keeping, v. Law

Botany
Thompson, J. McLean, M.A., D.Sc. Glas., F.L.S. H. Gaskell Prof.
Knight, Margery, D.Sc., F.L.S. Sr. Lectr.

Demrs. and Lectrs. :
Stirling, J., B.Sc. St. And.
Mathias, W. T., B.Sc.
Horton, W. Hon. Lectr. in Plant Path.

Chemistry, v. also Bio-C.
Baly, E. C. C., C.B.E., M.Sc., F.R.S. (Inorg. C.) Grant Prof.
Heilbron, I. M., Ph.D. Leip., D.Sc. Glas., F.I.C. H. Harrison Prof. (Org. C.).
Lewis, W. C. McC., M.A. Belf., D.Sc., F.Inst.P. (Physical C.) Brunner Prof.
Hilditch, T. P., D.Sc. Campbell-Brown Prof. (Industrial Chem.—Fats, Waxes and Oils).
Kay, F. W., M.Sc. Manc., Ph.D. Berl. (Applied Organic C.) Senr. Lectr.

Lectrs. and Demrs. :
Guthrie, F. C., M.A. (Inorg.).
Edwards, D. M., B.Sc. (Inorg.).
Griffith, R. O., M.Sc. (Phys.).
Shutt, W. J., M.Sc. (Phys.).
M'Keown, A., M.Sc. (Phys.).
Doran, W., M.Sc., A.I.C. (Organ.).
Keffler, L. P. G., M.Sc. (Inorg.).
Nance, J. T., M.A. ,,
Occleshaw, V. J., M.Sc. ,,
Morton, R. A., Ph.D., B.Sc., A.I.C. Demrs. :
Rogerson, H., M.Sc. Vict., F.I.C. (Inorg.).
McGookin, A., Ph.D., B.Sc. (App. Org.).

Chemistry, Pub. Health
Roberts, W. H., M.Sc., F.I.C. Assoc. Prof.
Jones, E. Gabriel, M.Sc , F.I.C. Lectr.

Chinese [Reader.
Parker, E. H., M.A. Manc.

Civic Design
Abercrombie, L. P., M.A., A.R.I.B.A. Lever Prof.

Special Lectrs. :
Prof. Hope (Hygiene).
Brodie, J. A., Assoc. Prof. M.Eng., Past Pres. Inst.C.E., M.I.Mech.E. (Civic Engin.).
Kelly, S. A., F.S.I. (Civic Engin.).
Ward, H. B., M.Sc., M.Eng., A.M I.C.E. (Civic Engin.).
Mattocks, R. H. (Landscape Design).
Clark, J. J., M.A. (Law of Housing and Town Planning).

Classics
Campbell, A. Y., M.A. Camb. (Greek) Gladstone Prof.
Gillies, M. M., Ph.D. Edin., B.A. Camb. Junr. Lectr.
Slater, D. A., M.A. Ox. (Latin) Prof.
Chapman, Dorothy, M.A. St. And. Lectr.
Onians, R. B., M.A. Spl. Lectr. (Latin).

Commerce [Chaddock Prof.
Dewsnup, E. R., M.A. Manc.
Dumbell, S., M.A. Lectr.
Miller, Margaret S., M.A., B.Com., Ph.D. Jr. Lectr.
Taggart, P., F.S.A. (Accountancy) Spl. Lectr.
Williams, A. (Banking) Spl. Lectr.

Dentistry, v. *infra*

Economic Science, v. also Com.
..... Brunner Prof.
Macdonald, R. A., M.A.
Lectr. in charge.
Burn, D. L., B.A.
Temp. Lectr. in Ec. Hist.
Parry, Eliz. A., M.A. Tutor.

Education, v. also Hist., Music, Physics
Campagnac, E. T., M.A. Ox. Prof.
Senr. Lectr.:
Paget, G. W., M.A. Camb.
Lectrs.:
Collie, Frances A., M.A. Wales.
Kermode, Helen S., M.A.
Attlee, C. M., B.A. Ox.
Teacher of Drawing:
Laverock, Florence.
Assts. in Method:
Beszant, C. F.
Tuckett, W. J., B.A. N.U.I.
Williams, Catherine A.
Milne, Susan.

Engineering, v. *infra*

English Lang. and Philol.
Mawer, A., M.A. Camb. and Durh. Baines Prof.

English Lit.
Elton, O., M.A. Ox., D.Litt. Durh., LL.D., F.B.A.
King Alfred Prof.
..... A. C. Bradley Prof.
Martin, L. C., B.Litt. Ox., M.A.
Senr. Lectr.
Trenery, Grace R., M.A. Lectr.
Porter, Enid H., B.A. Jr. Lectr.

Entomology
..... Dutton Prof.
Evans, Alwen M., M.Sc. Lectr.
Potts, W. H., B.A. Camb.
Asst. Lectr.

Fisheries, v. Ocean.

French [J. Barrow Prof.
Eggli, J. E., Ag. des L.
Renault, G. E., B ès A. Dijon
Senr. Lectr.
O'Higgins, Eliz., M.A.
Junr. Lectr.
Mayoux, J., Ag. d'Ang.
Junr. Lectr.
3 French Tutors.

Geography, v. also Geol.
Roxby, P. M., B.A. Ox.
Rankin Prof.
Winchester, Lily, M.A., F.R.Met.S.
Lectr.
King, H., B.A. Junr. Lectr.
Ellerton, M. K., Cartographer.

Geology [Herdman Prof.
Boswell, P. G. H., O.B.E., D.Sc. Lond., M.I.M.M., F.G.S. (Lectr. in *Geo-Morphology*)
Double, I. S., M.Sc., F.G.S.
Lectr. & Demr.
Neaverson, E., D.Sc., F.G.S. (Palæont.) Lectr. & Demr.

German
Collinson, W. E., M.A. Lond., Ph.D. (also Hon. Lectr. in Comp. Philol.) Prof.
Picton, Ænid, B.A. Wales
Junr. Lectr.

Hebrew, v. Affild. Instns.

Hellenistic Gk., v. Affild. Instns.

History [Assoc. Prof.
Jones, W. Garmon, M.A. (Spl. Lectr. in *Educn.*)

Hist., Ancient [Rathbone Prof.
Halliday, W. R., B.A., B.Litt. Ox.

History, Eccl., v. Affild. Instns.

History, Mediæval
Coopland, G. W., B.Sc. Lond., M.A., Litt.D. Assoc. Prof.
Howden, Marjorie P., M.A. Lectr.

History, Modern
Veitch, G. S., M.A., Litt.D.
A. Geddes & J. Rankin Prof.
Routledge, F. J., B.Litt. Ox., M.A.
Lectr.
Lackland, Hilda M., M.A. ,,

Italian
Praz, Mario Senr. Lectr.

Law, v. also Civic
Blease, W. Lyon, LL.M., Bar.-at-Law Q. Vict. Prof.
Batt, F. R., LL M. (Comml. L.) Prof
Findlay, J., M.A. Ox. Warr Mem. Lectr.
Jones, J. W., M.A., LL.M. (Criminal L., etc.) Lectr.
Thomas, H.H. Judge A. P., B.A., LL.D. Lond. (Internat. L.) Hon. Prof.
McKnight, R. A., A.C.A. Lectr. (Book-keeping).

Mathematics [Prof. (Pure M.).
Burkill, J. C., M.A Camb.
Proudman, J., M.A. Camb., D.Sc. (Applied M.) Prof.
Hargreaves, R., M.A. Camb. (Applied M.) Reader.
Street, R. O., M.A. Camb., M.Sc. (Applied M.) Sr. Lectr.
Doodson, A. T., D.Sc. (Analysis of Observations) (H.).
Wilson, B. M., M.A. Camb. M.Sc. Lectr. (Pure M.).
Ince, E. L., M.A. Edin., M.A. Camb. and Dub., D.Sc. Lectr. (Pure M.).
Room, T. G., B.A. Lectr. (Pure M.).
Boole-Stott, Alicia (H.).
Grace, S. E., M.Sc. Lectr. (Applied M.).

Medicine, v. *infra*

Music (Dept. of Education)
Pollitt, A. W., Mus.D. Durh., F.R.C.O., L.R.A.M., A.R.C.M. Lectr.

Naval Archit., v. Engin.

Oceanography
Johnstone, J., D.Sc. Lond. Prof.
Daniel, R. J., M.Sc. Lectr.
Jenkins, J. T., D.Sc. Lond., D.Sc. Wales, Ph.D. Kiel (Sea Fisheries) (H.).
Scott, A., A.L.S. (Econ. Ichthyol.) (H.).
Chadwick, H. C., A.L.S. (Marine Biol.) (H.).

Palæography and Diplomatics
Twemlow, J. A., B.A. Ox. Assoc. Prof.

Parasitology, v. also Vet.
Yorke, W., M.D. W. Myers Prof.
Southwell, T., A.R C Sc., F.Z.S. Lectr. (Helminthology).

Philology, Comparative, v. German

Philosophy
Mair, Alex., M.A. Edin. Prof.
Field, G. C., M.A., B.Sc. Senr. Lectr.

Physics [L. Jones Prof.
Wilberforce, L. R., M.A. Camb.
Rice, J., M.A. Belf. (Spl. Lectr. in *Educn.*) Assoc. Prof.
Lectrs. and Demrs. :
Ablett, R., M.Sc.
Edwards, E., B.Sc. Wales, M.A. Tor.
Roberts, R. W., M.Sc.
Stewardson, E. A., B.Sc.
Richards, Constance E., B.Sc. Oliver Lodge Fellow.

Physiology
Macdonald, J. S., M.A. Camb., F.R.S. Holt Prof.
Duffield, F. A., M.B., Ch.B. Edin. Lectr.
Waller, W. W., B.A., B.M. Ox.
Waller, J. C., M.A. Camb.
Wadsworth, T. W., M.D., D.P.H.
Walker, C. E., D.Sc., M.R.C.S., L.R.C.P. (Histology) Lectr.
Tozer, Frances M., B.Sc. Lond. (Histology & Cytology) Lectr.
2 Junr. Lectrs. and Demrs.

Poetry
Shanks, E. B. Spl. Lectr.

(H.) = Hon. Lectr.

Protozoology
Macfie, J. W. Scott, M.A. Camb., M.B., D.Sc. Edin. Lectr.

Russian Studies
Boswell, A. B., M.A. Bowes Prof. of R. Hist. Lang. and Lit.
Williams, H. W., Ph.D. Mun. (R. Ethnog.) Research Fellow.
Slepchenko, B. S. Recog. Teacher.

Social Science
Carr-Saunders, A. M., M.A. Ox. Charles Booth Prof.
Jones, D. Caradog, M.A. Camb. Sr. Lectr. in Social Statistics.
Black, Ellinor I., B.Sc. Lond. Lectr. in Social Science.

Spanish
Peers, E. Allison, M.A. Camb. and Lond. Gilmour Prof.
Alonso, A. M., Ph.D., B.Sc. Tempy. Lectr.

Vet. Science
Share-Jones, J., D.V.Sc., M.Sc., F.R.C.V.S. Dir. of Vet. Studies Prof. of V. Anat.
Gaiger, S. H., F.R.C.V.S., Prof. (Diseases of Animals).
Annett, H. E., M.B.E., M.D., D.P.H. (H.).
Elam, C. W., D.V.H., M.R.C.V.S. Lectr.
Hanna, W., M.D. Belf., D.P.H. Camb. Lectr.
Hughes, H. V., B.V.Sc. M.R.C.V.S., D.V.H. Lectr.
Isherwood, R., M.R.C.V.S. Lectr.
Mattinson, A. B., O.B.E., F.R.C.V.S., D.V.S.M. Vict. Lectr.
Pillers, A. W. N., F.R.C.V.S. (H.) Clin. Vet. Parasitology.
Warburton, F. T., M.R.C.V.S. Clin. Lectr.
White, C. F., M.B., Ch.B., D.P.H. Vict. Lectr.

Welsh
Davies, J. Glyn, M.A. Assoc. Prof.
Owen, E., Bar.-at-Law, M.A., F.S.A. (Welsh Mediæval Antiq.) Reader.

Zoology, v. also Entom., Ocean., Parasit., Protoz.
Dakin, W. J., D.Sc., F.Z.S., F.L.S. Derby Prof.
Burfield, S. T., B.A. Camb., M.Sc. Sr. Lectr.
Bisbee, Ruth C., M.Sc. Lectr. & Demr.
Fordham, Mahalah G. C., M.Sc. West. Aus. Lectr. & Demr.

Engineering

Watkinson, W. H., M.Eng., M.I.C.E., M.I.Mech.E. Harrison Prof.
Mason, W., D.Sc. Manc., M.I.C.E., M.I.Mech.E. (Strength of Materials) Hughes Prof.
Scholes, G. E., M.B.E., M.Sc. Manc., M.I.Mech.E., M.I.A.E. (Thermodynamics) Rankin Prof.
Mawson, H., D.Sc. (Eng.) Lond., A.R.C.S., A.M.I.C.E., A.M.I.Mech.E. Sr. Lectr.
Clark, J. J., M.Eng., A.M.I.Mech.E. Lectr. (Design & Drawing)
Okill, J., M.Eng., M.I.A.E. Lectr.
Kearton, W. J., M.Eng., A.M.I.N.A., A.M.I.Mech.E. Lectr.
Cole, E. B., B.Sc. Bris. Lectr.
Smith, G., B.Sc. Jr. Lectr.

Civil Engineering
Perrott, S. W., M.A.I. Dub., M.I.C.E. Prof.
Whitaker, H. A., B.Eng., M.Inst.Struct.E. Lectr.
Hitchens, A. P., B.Eng., A.M.I.C.E., M.I.Struct.E. (also Lectr. in Design and Drawing) Lectr. & Demr.
Webster, F., M.C., M.Eng., A.M.I.C.E. Lectr. & Demr.

(H.) = Hon. Lectr.

Dock and Harbour Engineering
Wilton, T. R., M.A. Camb., M.I.C.E. Assoc. Prof.

Electrical Engineering
Marchant, E. W., D.Sc. Lond., M.I.E.E. Jardine Prof.
Teago, F. J., D.Sc. Durh., M.I.E.E. (Elect. Machinery) Prof.
Prescott, J. C., M.Eng., A.M.I.E.E. Lectr.
Waygood, O. C., M.I.E.E. Lectr.
Brookes, R. C., B.A. Camb., A.M.I.E.E. Lectr.

Law, Engineering
Gordon, C. G. S., LL.B., M.I.Min.E.

Marine Engineering
Lectrs.: The Harrison Prof. of E., the Prof. of Nav. Arch.

Metallurgy
Bannister, C. O., M.Eng., A.R.S.M., F.I.C. (also Lectr. in Dental M.) Wortley Prof.
..... Lectr.

Municipal Engineering
Brodie, J. A., M.Eng., M.I.Mech.E. Assoc. Prof.

Municipal Electrical Engineering
Dickinson, H., M.I.C.E., M.I.Mech.E., M.I.E.E. Hon. Lectr.

Naval Architecture
Abell, T. B., O.B.E., M.Eng., R.C.N.C. (ret.), M.I.N.A. A. Elder Prof.
Wilson, J. C. M., M.Eng., R.N.C., A.M.I.N.A. Lectr. & Demr.

Railway Engineering
Aspinall, Sir J. A. F., D.Eng., Past Pres. I.C.E., Past Pres. I.Mech.E. Assoc. Prof.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology
Beattie, J. M., M.A. N.Z., M.D., C.M. Edin. Prof.
Ashcroft, L. S, M.B., Ch.B., D.P.H. Lectr.
Shrewsbury, J. F. D., M.B., Ch.B. (Public Health Bact.) Lectr.
Fitch, A. A., M.R.C.S., L.R.C.P. Lectr.

Cytology, v. also Physiology
Walker, C. E., D.Sc., M.R.C.S., L.R.C.P. Assoc. Prof.

Dermatology
MacKenna, R. W., M.A., M.D. Edin. Lectr.

Diseases of Children [Lectr.
Fordyce, A. D., M.D. Edin.

Diseases, Infectious
Rundle, C., O.B.E., M.D. Lond., D.P.H. Lectr.

Diseases, Mental
Reeve, E. F., M.B., B.S. Lond. Lectr.

Diseases, Specific
Wilson, F. P., M.D., M.Sc. Lectr.

Forensic Medicine and Toxicology [Prof.
MacFall, J. E. W., M.D., D.P.H.

Hygiene
Hope, E. W., O.B.E., M.D., D.Sc. Edin. Prof.
Mussen, A. A., B.A., M.D. Dub., D.P.H. (Practical San.) Lectr.

Lectrs. in Pub. Health Admn.:
Hanna, W., M.A., M.D. Belf., D.P.H. (Admn. and Vaccn.)
Stallybrass, C. O., M.D., B.S., D.P.H.

Laryngology [Hon. Lectr.
Guthrie, T., M.A., M.D., F.R.C.S.

Mat. Med. and Pharm.
Marsden, P. H., F.C.S. Lectr.

Medicine
Hay, John, D.L., M.D., F.R.C.P. Prof. & Clin. Lectr.

Clinical Lectrs.:
Bligh, J. Murray, M.D.
Gullan, A. G., M.D. Lond., F.R.C.S.

Johnson, W. (v. Anat.).
Matthews, J. C., M.A., M.D. Camb.
Owen, J., T.D., M.D. Lond., F.R.C.P., D.P.H.
Pemberton, H. S., M.B.

Midwifery and Gynæc.
Bell, W. Blair, M.D., B.S. Lond. Prof. and Clin. Lectr.
Wilson, J. St. G., M.B., Ch.M., F.R.C.S. Lectr.
Herd, S. B., M.D. Demr.

Clin. Lectrs. :
Ivens, Mary H. F., Ch.M., M.B., M.S. Lond.
Murray, H Leith, M.D. Aberd.
Willett, J. H., M.D.

Neuro - Pathology of Mental Diseases
Watson, G. A., M.B., C.M. Edin. Hon. Lectr.

Ophthalmology
Chavasse, F. B., M.A., M.D., D.O.M.S. Ox. Lectr.

Pathology
Glynn, E. E., M.A., M.D., C.M. Camb., F.R.C.P. Holt Prof.
Evans, W. Howel, B.Sc., M.B., Ch.B. Lectr.
..... Junr. Lectr.
Owen, D. R., B.A. Camb. M.R.C.S., L.R.C.P. Demr.

Pharmacology, v. also Mat. Med.
Dilling, W. J., M.B., Ch.B. Aberd. Lectr.

Public Health, v. Hyg. and Chem.

Radiology [Lectr.
Holland, C. Thurstan, D.L., Ch.M.

Asst. Lectrs. :
Mather, J. H., M.B., Ch.B., B.Sc., D.M.R.E.
Roberts, R. E., M.D., B.Sc., D.M.R.E.

Surgery
Parker, R., M.B., B.S. Lond., F.R.C.S. Prof.
Kelly, R. E., C.B., M.D., B.Sc., F.R.C.S. Prof. and Clin. Lectr.
Jones, Sir Robert, Bart., C.B., K.B.E., Ch.M., D.Sc., F.R.C.S. (Orthopædics) Lectr.
Monsarrat, K. W., M.B., C.M. Edin. (Operative S.) Lectr. and Clin. Lectr.
Kennon, R., M.D., F.R.C.S. (Practical S.) Lectr.
Nuttall, H. C. W., M.D., F.R.C.S., D.P.H. Demr.

Other Clinical Lectrs. :
Armour, T. R. W., M.B., C.M. Edin., F.R.C.S.
Douglas-Crawford, D., M.B., C.M. Edin., F.R.C.S. (v. Anat.) (Lectr. for Dental Students).
Evans, A. J., F.R.C.S. Edin.
Heaney, F. Strong, M.A., M.D. Dub.
Simpson, G. C. E., B.A., M.B., B.C. Camb., B.Sc., F.R.C.S.
McMurray, T. P., Ch.M. Belf.
Jeans, F., M.A., M.B., B.Ch. Camb., F.R.C.S.
Williams, O. Herbert, M.B. Edin., F.R.C.S., D.P.H. Ox.

Tropical Med.
Stephens, J. W. W., B.A., M.D., F.R.S., D.P.H. Camb. Sir A. Jones Prof.
..... Clinical Pathologist.

Tropical Diseases of Africa
Blacklock, D. B., M.D. Edin., D.P.H. Prof., and Dir. of Sierra Leone Research Lab.
Adler, S., M.B., Ch.B. Research Asst.

Tropical Sanitation
Kennan, R. H., B.A. Dub., M.D., F.R.C.S., D.P.H., D.T.M. Lectr.
Prout, W. T., C.M.G., M.B., C.M. Edin. Hon. Lectr.

Vaccination, v. Hygiene

Dentistry

Dental Surgery
Gilmour, W. H., M.D.S., L.D.S. (Dir. of D. Educn) Cohen Prof.
Barker, H. E., L.D.S. Demr.
Collinge, J. S. H, L.D.S. Demr.
Lyall, G. L., L.D.S. Demr.
McNaught, P., L.D.S. Demr.

Anæsthetics
Smith, G. F. R., M.B., B.S. Lond., M.D. Lectr.
Clothier, B., L.D.S. Demr.

D. Anat., Histol., and Physiol.
Woods, J. A., M.D.S., L.D.S. Lectr.
Guyler, T. W. C., B.D.S. Demr.

D. Mechanics [Lectr.
Osborn, L. J., M.D.S., L.D.S.
Fairhurst, R., B.D.S., L.D.S. Demr.

D. Metallurgy, v. Met.

Operative D. Surgery
Bennette, H. W. P., M.D.S., L.D.S. Lectr.
Meeson, A. E., B.D.S. Demr.
Lyall, G. L., L.D.S. Demr.

Clin. D. Surgery
7 Lectrs.

Orthodontia
Mountford, E. H., L.D.S. Lectr.
Watkin, H. G., L.D.S. Demr.

University Extension

Secy. to the Univ. Extension Board :
E. Hickinbotham, B.A.

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INSTITUTE OF ARCHÆOLOGY, Abercromby Square, Liverpool. Associated Teachers additional to the staff of the Faculty—*Assyriology*, Pinches, T. G., LL.D.; *Numismatics*, Milne, J. G., M.A.; *Central American Arch.*, Gann, T. W. F., M.R.C.S., L.R.C.P.

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ST. AIDAN'S COLLEGE, Birkenhead. Principal, Rev. R. T. Howard, M.A. Affild. for first year of degree course and, in subjects in which instruction is not provided in the Univ., up to half of the entire course for the B.A.
Recognized Teachers in—*Hellenistic Greek*, Parry, E. Gordon, B.A.; *Eccl. Hist.*, Heiser, F. B., M.A.; *Hebrew*, Keith, K. E., M.A.

EDGE HILL TRAINING COLLEGE. Principal, Miss E. M. Smith. Recognized Teachers in—*Maths.*, Smith, Miss E. M.; *English Lit.*, Deakin, Miss M. H., M.A.

MOUNT PLEASANT TRAINING COLLEGE. Principal, Miss C. Holcroft, M.A. Recognized Teachers in—*Latin*, Sampson, Miss M., M.A.; *English Lit.*, Healey, Miss M. J., B.A.

TRAINING COLLEGE, Chester. Recognized Teachers: Thomas, R. A., O.B.E., M.A., Principal of the College (in *Maths.*); Hooper, F. W., B.Sc., A.I.C. (in *Chem. and Physics*); Sheppard, W. R., B.Sc. (in *Maths. and Physics*); Hill, J. C., M.Sc. (in *Chem.*).

THE HARRIS INSTITUTE, Preston. First year of Degree Course (Engineering).

SCHOOL OF TROPICAL MEDICINE, Pembroke Place, Liverpool. New Laboratories opened 1920. Ward for Tropical Diseases at Royal Infirmary, Liverpool. Departments with research laboratories at Manaos and Sierra Leone. For training in the conduct of original research and organization of prophylactic measure. Has sent out numerous expeditions to tropical

countries. Publishes Memoirs and *Annals*. For staff, v. *supra*—Trop. Med., Trop. San., Parasit., Entom., Hygiene. Diploma course, 3 months.

PATHOLOGICAL LABORATORY, County Asylum, Rainhill. *Pathologist*, Watson, G. A., M.B., C.M.

GENERAL INFORMATION

University College, Liverpool, founded by Royal Charter 1881, was admitted into the Victoria University, Manchester, in 1884. In 1903 the University of Liverpool was established by Royal Charter and the College was absorbed in it.

LIBRARY, MUSEUMS, ETC. The library of the Univ. contains about 100,000 vols., and includes among special collections great series, such as Migne, Pertz, Muratori, and Acta Sanctorum. Among rarer possessions are the Rylands collection of early works on Geography and Astronomy, a collection of works by and about William Blake, sets of the Roxburghe, Bannatyne, and Maitland Clubs, a unique number of Aldines, and over 100 incunabula, among them the final sheets of the Constitutiones of Clement V. printed at Mainz in 1460. Special bibliographies have been issued. In addition there are twenty-three Class Libraries in the Faculty of Arts and External Departmental Libraries for the Medical and Science Departments.

The following are the principal MUSEUMS AND LABORATORIES: Anat., Archæol. (including a unique Hittite collection), Archit., Bact., Bio-Chem., Bot., Chem., Physical and Electro-Chem., Electricity (Applied), Embryol. and Genetics, Engin. (including facilities for aerial motor and propeller testing and other wind experiments), Geol., Hygiene, Laryngology, Materia Medica, Expl. Med., Trop. Med. (including museum, animal houses, and specially warmed glass insectarium, and research labs. at Liverpool, Sierra Leone and Manaos), Obst. and Gynæc., Oceanog., Ophth., Path., Physics, Physiol. and Histol., Surg. Path., Tidal Research, Toxicology, Vet. Anat. and Path., Zool. The Port Erin (Isle of Man) Marine Biol. Lab. has been transferred to the Univ. by an Act of Tynwald. HOSPLS. available for Clinics, 4 general and 6 special, containing 1445 beds, which together constitute the clinical school. The trade of the port ensures frequent importations of infection. Special wards for Trop. Diseases. Expeditions to Tropical countries organized for investigation or advice. Suitably qualified persons may enter the Laboratories for research work at prescribed fees.

FACULTIES. (1) Arts (with Schools of Archit., Social Science, Local History and Records, Russian Studies; Departments of Civic Design, Commerce, and Educn.); (2) Science; (3) Medicine (with Schools of Dent. Surg., Hygiene, Trop. Med., Vet. Sc.); (4) Law; (5) Engineering. *Deans:* (1) G. C. Field (Philos.), (2) Prof. Lewis (Chem.), (3) W. J. Dilling (Pharmacology), (4) Prof. Batt (Commercial Law), and (5) Prof. Bannister (Metallurgy). Director of Dental Educn., Prof. Gilmour; of Veterinary studies, Prof. J. Share-Jones.

MATRICULATION. See Appendices XXI. and XXIII.

DEGREE COURSES: 3 yrs., B.A., B.Com., B.Sc., LL.B.; 3 or 4 yrs., B.Eng. (*plus* 2 yrs.' appr'ship); 5 yrs., B. Arch., M.B., Ch.B., B.D.S., B.V.Sc.

The B.Com. courses include (1) General Business; (2) Banking, Insurance, Accounting; (3) Transport, Railways, Shipping; (4) Consular Service.

The LL.B. courses prepare for the Bar and solicitors' examns. as well as for the Degree. The B.V.Sc. may be taken concurrently with the M.R.C.V.S.

HIGHER DEGREES: Ph.D., v. p. 17. (1) *Graduates of Liverpool in Faculty*

concerned. Obtainable after Bachelorship: 1 yr., (after Hons. B.Sc.) M.Sc.; 15 mos., M.Ch. Orth.; 2 yrs., M.A., M.Com., (after ord. B.Sc.) M.Sc., M.D., Ch.M., M.H. (Hygiene), M.D.S., M.V.Sc., LL.M., M.Eng. After Mastership: 5 yrs., D.Litt., D.V.Sc., LL.D. After Mastership or Ph.D.: 5 yrs., D.Sc., D.Eng.; 10 yrs., after B.Arch., on distinguished archit. work, M.Arch. (2) *Graduates of approved Univs.* After Bachelorship and 2 yrs.' higher study or research in Liv. Univ.: M.A. (1 yr. elsewhere), M.Com., M.Sc., M.D., M.H., M.V.Sc., LL.M., M.Eng. The M.A. and M.Com. are also open under certain conditions, to B.Arch. and grads. in Liv. Univ. of a Faculty other than Arts. (3) *Non-Graduates.* After 3 yrs.' higher study or research in Liv. Univ.: M.A. (1 yr. elsewhere), M.Sc., LL.M., M.Eng.

The M.Ch. Orth. is open to grads., other than Med., of this or approved Univs. who are F.R.C.S. (Eng., Ed., or I.) or Fellows of the American Coll. of Surg.

DIPLOMAS. Archæol., 1 yr. course; Archit., 5 yrs.; Civic Design, 1 yr.; Commerce, 3 yrs.; Social Studies, 1 or 2 yrs.; Educn. (for grads.), 1 yr.; Geography, 2 yrs.; L.D.S., 4 yrs.; D.P.H., 1 yr.; D.T.M., 3 mos.; D.T.H., 3 mos.; D.M.R.E., 2 terms; D.V.H., 6 mos.; Engin., 2 yrs. after Certif.

CERTIFICATES. Archæology, 2 yrs.' course; separate Arts subjects, 2 yrs.; Architectural Design, 1 yr.; Civic Design, 2 terms of 2 Sessions; Social Studies, 1 or 2 yrs. (qualification for entry lower than for Diploma course); Educn., 1 yr.; Engin., 3 yrs.; Univ. extension courses, 3 yrs.

FEES. For Matricn., £2. Guild of Undergrads., £2 : 7 : 6 p.a. DEGREE COURSES: B.A., or B.Com. (3 yrs.), £90; M.A. or M.Com. (sessional), £5; B.Arch. (5 yrs.), £150; B.Sc. (3 yrs.), £115 to £160; M.Sc. (sessional), Maths., £5; other subjs., £10; M.B., Ch.B. (5 yrs.), £228; M.D. (sessional), £10; Ch.M. (2 yrs.), £20; M.H. (2 yrs.), £80; M.Ch. Orth. (15 mos.), £41; B.D.S. (5 yrs. complete course in the University), £250; M.D.S. (2 yrs.), £27 or £32; B.V.Sc. (5 yrs.), £175; LL.B. (3 yrs.), £50; LL.M. (sessional), £5; B.Eng. (3 or 4 yrs.), £144-£192; M.Eng. (Research), £10; Ph.D. (2 yrs.), £27. Apparatus fee per session, M.Sc., M.Eng., Ph.D. in Chem., £20, other subjects except Maths., £10. DIPLOMA COURSES: Archit. (5 yrs.), £150; Civ. Des. day, £35; Educ. (1 yr.), £20; Com. (3 yrs.), £90; Soc. Science (2 yrs.), £25; Archæol. (1 yr.), £10; Geography (2 yrs.), 1st yr., £20, 2nd yr., £10; D.P.H. (1 yr.), £45; D.T.M. (3 mos.), £21; D.T.H. (3 mos.), £15; D.M.R.E. (2 terms), £24 : 5s.; L.D.S. Liv. (complete course in the University) (4 yrs.), £198; M.R.C.V.S. (4 yrs.), £120; D.V.H. (6 mos.), £21; Eng., £96. CERTIFICATE COURSES: Archit. Des. (1 yr.), £35; Civ. Des. (2 terms of two sessions), £10; Soc. Science (2 yrs.), £25; Archæol. (2 yrs.), £30; Educ. (1 yr.), £20; Engin. (3 yrs.), £96-£144.

EXAMN. FEES. M.B. and Ch.B., B.V.Sc., B.D.S., £15; B.Arch., £5; other bachelor degrees, £4; Master's degree (examn. or on application), M.H., 10 gs.; Ch.M., M.V.Sc., M.D.S., £5; others, £3; Doctor's (on application), £10. Diploma examns., L.D.S., £15; Comm., £4; Archæol., £3; Educn., Soc. Science, Eng., £2; others, £5 or 5 gs. Certifs. Examns., Eng., £6; others, £2. Degree Admission Fees, £5. Dipl. Eng., £3; Certif. Eng., £2; others, £1.

SCHOLARSHIPS, ETC., FOR GRADUATES. Research Fellowships and Scholarships of the aggregate value of over £6000 are offered annually in all faculties; Garrett International Fellowship for Research in Bact., Path., or Physiol. open to members of Univs. and Med. schools in the U.S.A. and of other foreign schools, £100 for 1 yr. with possible extension 2 yrs. (applications by May 31); Johnston Colonial Fellowship of same value, for research in Bio-Chem. with teaching, open to members of Colonial Univs. and Med. Schools, not excluding Colonial candidates with British qualifications (applications by May 31);

Lloyd's Register Scholps. in Naval Archit., £100 p.a. for 3 yrs. for British subjects, men, not over 23.

RESIDENCE, ETC. Two hostels for 83 men (fees, £70); one for about 90 women (fees from £63 to £69). Students' Union Club House cost £20,000.

ASSOCIATION OF GRADUATES. Besides the statutory assocn.—"Convocation"—there is an Old Students' Assocn., the functions of which are mainly social.

A UNIVERSITY EXTENSION Board is responsible for extra-mural work. There are travelling libraries for local centres.

PUBLICATIONS. *Calendar* (Oct.), 2s. 6d.; *Diary* (Oct.), free; *Prospectuses of Faculties and Schools* (July), free; *Students' Handbook* (Oct.), free; Students' Magazine, *The Sphinx*, 6d. (4 numbers per session); *Inaugural Lectures*. Issued in 1920, *inter alia*, School of Tropical Medicine Historical Record, 1898–1920, 10s. 6d.

THE YEAR 1924–25

BENEFACTIONS. Rex D. Cohen, £500 for 3 years for increase of value of Univ. Fellowships and Scholarships; C. Sydney Jones, a house for accommodation of School of Social Science; Miss Holt, £235 for panelling new dining-hall of Univ. Hall; Exors. of late Alderman J. Harrison Jones, £1000; Sir J. Brunner and Roscoe Brunner, £500 each for the Veterinary School Extension; Pro-Chancellor Rathbone, £250.

NEW BUILDINGS. Extension of Univ. Hall for Women in course of erection.

NEW POSTS. Senior Lectureships in Zoology and Botany; Hon. Lectureship in Medicine; Lectureships in Music (Alsop), Pure Maths. and English Lit.

LEGISLATION. Social Science made a subject for the degree of B.A. (Ordinary and Hons.). Diploma in Tropical Hygiene established. Civic Design Certificate course extended from 1 to 2 sessions.

RESIGNATIONS. Prof. R. J. M. Buchanan (deceased), Prof. R. Newstead (retired), Assoc. Prof. G. C. E. Simpson, A. E. Heath (on appt. Prof. of Philos., Univ. Coll., Swansea), M. T. Smiley (on appt. Prof. of Greek, Univ. Coll., London), Emeritus Prof. Thelwall Thomas (Lectureship in Clinical Surgery), R. A. Hendry (retired).

AFFILIATION. The Training College, Chester.

HONORARY DEGREES. *LL.D.*—Sir Giles G. Scott, Hugh R. Rathbone, Sir Robert Jones, Sir W. H. Hadow, Sir Dyce Duckworth; *Litt.D.* Prof. T. F. Tout, Prof. S. Alexander; *D.Sc.*—Sir J. C. Irvine; *D.Eng.*—Sir Dugald Clerk.

OTHER DEGREES AWARDED. Ph.D., 27; Litt.D., 1; M.A., 29; B.A., 104; B.Com., 8; B.Arch., 8; M.Sc., 13; B.Sc., 116; M.D., 6; M.Ch.Orth., 1; M.B., Ch.B., 90; B.D.S., 3; B.V.Sc., 3; LL.B., 9; D.Eng., 1; M.Eng., 37; B.Eng., 27.

STUDENTS. Full-time, preparing for a first degree, 1230, including 467 women; for first diploma, 390 (women, 116); graduates, 31 (w.—5); total, 1651. Part-time, 297 (w.—76), including graduates, 187 (w.—66). Occasional, 103 (w.—52).

UNIVERSITY EXTENSION. Lectures at 23 centres; Three-year Tutorial classes, 46; 1040 students on roll; series of popular afternoon and evening public lectures at the Univ.; several special public lectures by eminent men.

UNIVERSITY OF LONDON

VISITOR—H.M. THE KING IN COUNCIL.

CHANCELLOR—Rt. Hon. EARL OF ROSEBERY AND MIDLOTHIAN, K.G., K.T., D.C.L., etc.

VICE-CHANCELLOR—Prof. E. A. GARDNER, Litt.D.

CHAIRMAN OF CONVOCATION—S. L. LONEY, M.A.

PRINCIPAL OFFICER—Sir E. COOPER PERRY, M.A., M.D., F.R.C.P.

ACADEMIC REGISTRAR—EDWIN DELLER, LL.D.

REGISTRAR OF THE COUNCIL FOR EXTERNAL STUDENTS—G. F. GOODCHILD, M.A., B.Sc.

REGISTRAR OF THE UNIVERSITY EXTENSION BOARD—J. LEA, M.A.

FINANCIAL OFFICER and SECRETARY TO THE SENATE—H. CLAUGHTON, C.B.E., B.A.

SUPERINTENDENT OF EXAMINATIONS—F. J. PORT, LL.B.

GOLDSMITHS' LIBRARIAN—R. A. RYE.

REPRESENTATIVE IN PARLIAMENT—E. G. GRAHAM LITTLE, M.D., B.A.

Incorporated Institutions and University Departments

UNIVERSITY COLLEGE, v. p. 116.
KING'S COLLEGE, v. p. 124.
GOLDSMITHS' COLLEGE, v. p. 173.
BROWN ANIMAL SANATORY INSTITN., v. p. 105.
FRANCIS GALTON LABORATORY FOR NATIONAL EUGENICS, v. p. 121.
SCHOOL OF ARCHITECTURE, v. p. 121.
INSTITUTE OF HISTORICAL RESEARCH, v. p. 105.
COMMERCE DEGREE BUREAU AND APPOINTMENTS BOARD, v. p. 111.

Associated Institutions (v. next page)

36 SCHOOLS OF THE UNIVERSITY.
23 OTHER INSTITUTIONS HAVING RECOGNIZED TEACHERS.

PROFESSORS, READERS, LECTURERS, ETC.

Note.— University teaching is organized under 3 categories: (1) conducted by the Univ. itself; (2) conducted by the several "Schools of the Univ."; (3) conducted at the other Institutions at which there are "Recognized Teachers of the Univ." For explanation of these terms, see second para. of General Information on p. 104. The names

of teachers of the several subjects will be found in the subsections indicated by symbols as follows:

UNIVERSITY COLLEGE, p. 116 (U) KING'S COLLEGE, p. 124 (K)

Schools of the University

IMPERIAL COLLEGE, p. 130 (Im.).
EAST LONDON COLLEGE, p. 135 (EL).
BIRKBECK COLLEGE, p. 137 (Bk.).
LONDON SCH. OF ECONOMICS, p. 139 (E).
S.E. AGRIC. COLL., WYE, p. 143 (Ag.).
LONDON DAY TRAINING COLL., p. 144 (Tr.).
SCHOOL OF ORIENTAL STUDIES, p. 145 (O).
KING'S COLL. FOR WOMEN, HOUSEHOLD AND SOCIAL SCIENCE DEPT., p. 127 (KH).
BEDFORD COLL. FOR WOMEN, p. 147 (BW).
ROYAL HOLLOWAY COLL., p. 150 (Ho.).
WESTFIELD COLL., p. 151 (Wf.).
5 THEOLOGICAL SCHOOLS, p. 152 (Th.).
20 MEDICAL SCHOOLS, p. 154 (Med.).
Laws Faculty, p. 168 (Law).
23 *Other Institutions having recognized Teachers*, p. 169 (RI).

Accountancy and Business Methods (E).
Administration, v. Public
Aeronautics (Im., EL).
African Languages (O).
Agriculture (Ag., RI).
Anatomy (U, K, Med.).
Anatomy, Morbid (Med.).
Anthropology, v. also Social A. (U, K).
Arabic (O).
Aramaic (Th.).
Archæology (U, K).
Architecture (U).
Art (Fine Art) (U, K, Ho., RI).
Astronomy (U, Im.).
Astrophysics (Im.).
Aviation (Im., EL).
Bacteriology (KH, Med.).
Banking and Currency (E).
Bibliography (K).
Bio-Chemistry (U, Im., Med.).
Biology (Im., KH, Med.).
Botany (U, K, Im., EL, Bk., Ag., BW, Ho., Wf., Med., RI).
Celtic (U).
Chemical Engineering (U, Im.).
Chemical Technology (Im.).
Chemistry (U, K, Im., EL, Bk., Ag., KH, BW, Ho., Med., RI).
Chemistry, Organic (U, K, Im., BW, RI).
Chemistry, Pathological (U, Med.).
Chemistry, Physical (K, Im., BW).
Chemistry, Physiological (Med.).
Child-Welfare (KH).
Chinese (O).
Classics (U, K, EL, Bk., BW, Ho., Wf., Th., RI).
Commerce and Industry (E, RI).
Coptic (U).
Czecho-Slovak (K).
Danish (U).
Dental Science (Med.).
Dutch (U, BW).
Economics (U, E, Bk., KH).
Economic Geography (U, E).
Economic History (K, E).
Education (K, Tr., RI).
Egyptology (U).
Embryology (U).
Engineering—
Aviation (Im., EL).
Chemical Engineering (U, Im.).
Civil Engineering (U, K, Im., EL, RI).
Electrical Engineering (U, K, Im., EL, RI).
Engineering Design (U, Im.).
Heating and Ventilating (U).
Mechanical Engineering (U, K, Im., EL, RI).
Mining and Power Engineering (Im.).

Engineering—Contd.
Municipal Engineering (U).
Optical Engineering (Im.).
Railway Engineering (U).
Surveying (U, RI).
Waterways, Harbours, and Docks (U).
English (U, K, EL, Bk., E, BW, Ho., Wf.).
Entomology (Im., Ag., Med.).
Ethnology (E).
Eugenics (U).
Finance, Public (E).
Forestry (Im.).
French (U, K, EL, Bk., E, BW, Ho., Wf.).
Fruit Culture (Ag.).
Fuel Technology (Im.).
Geography (U, K, EL, E, Bk., BW).
Geology (U, K, Im., EL, Bk., Ag., BW, RI).
German (U, K, EL, Bk., E, BW, Ho.).
Greek, Modern, and Byzantine History (K).
Hebrew (U, K, Th., RI).
Historical Research and Sources of English H. (*v. also p.* 125) (K)
History (U, K, EL, Bk., E, O, BW, Ho., Wf., RI).
History and Culture of British Dominions in Asia, with Special Reference to India (O).
History and Records of London (U).
History, Imperial (K).
History and Instns., Modern French (U, E).
History, Central European (K).
History of Medicine (U).
History and Method of Science (U).
Horticulture (Ag.).
Household Science (KH).
Hygiene (U, KH, Med.).
Indian Economics (E).
International Relations (E).
Italian (U, K).
Journalism (U, K).
Languages, v. African, Arabic, etc.
Law (Law, Bk., E, O, RI).
Librarianship (U).
Logic, v. Philos.
Maternity and Child-Welfare (KH).
Mathematics (U, K, Im., EL, Bk., BW, Ho., Wf., RI).
Medicine and Surgery (Med.).
Metallurgy (Im., RI).
Meteorology (Im.).
Military Science (U, K).
Mineralogy (U, Im.).
Mining (Im.).
Music (Ho., RI).
Mycology (Ag.).
Norwegian (U).
Oil Technology (Im.).
Optics, Technical (Im.).
Oriental Langs., v. also Semitic, Tibetan (O).
Palæography and Econ. Hist. (K).
Palæontology (Im.).
Pedagogy (K, Tr., RI).
Pharmacology (U, K, Med.).
Philology, Comparative (U, K).
Philosophy, Psychology, and Logic (U, K, Bk., E, BW, Ho., Th.).
Philosophy of Religion (K).
Phonetics (U).
Physics (U, K, Im., EL, Bk., KH, BW, Ho., Med., RI).
Physics, Astronomical (U, Im.).
Physiology (U, K, KH, BW, Med., RI).
Polish (K).
Political Economy, v. Economics
Political Science (E).
Political Theory (E).
Portuguese (K).
Poultry (Ag.).
Protozoology (Med.).
Psychology, v. Philosophy
Public Administration (E).
Public Health (U, Med.).
Refractory Materials and Silicates (Im.).
Romance Philology (K).
Roumanian (K).
Russian (K).
Russian Institutions and Economics (E).
Scandinavian (U).
Secretarial Practice (E).
Semitic Languages (U, RI).
Serbian (K).
Shipping (E).
Slavonic Languages (K).
Social Anthropology (E).
Social Science (E, KH, BW).
Sociology (E).
Spanish (K, EL).

Statistics	(U, E).	*Transport*	(E).
Surveying	(U, RI).	*Veterinary* Science (v. also p. 172)	
Swedish	(U).		(Ag., RI).
Theology	(K, Th.).	*Woods and Fibres, Technology of*	
Thermodynamics	(U).		(Im.).
Tibetan	(U).	*Zoology*	(U, K, Im., El., Bk., BW, Med., RI).
Town-planning, v. Architecture			

GENERAL INFORMATION

[NOTE. *The University authorities desire that it should be clearly understood that they can accept no responsibility for any information concerning examns. or procedure except such as is contained in their own official Regns. These can always be obtained on application at the Univ. offices.*]

Central offices—South Kensington, S.W.7. Telegraphic address—University, Southkens, London. Telephone—Kensington 7000.

The Univ. was constituted by Royal Charter in 1836 as a body empowered to grant degrees to students of approved institutions after examination, and, until 1900, its work was confined to the examination of students. The system whereby entrance to its examns. was restricted to students of certain affiliated Colleges was abolished, except for examns. in Medicine, in 1858. In 1878 its degrees were thrown open to women, London being the first of the Univs. of Great Britain to adopt this policy.

In 1900 the Univ. was reconstituted so as to strengthen the ties between it and the institutions engaged in Higher Education within a radius of 30 miles. The Senate is empowered to admit as *Schools of the University* institutions situated within the administrative county of London and not carried on for the private gain or profit of the owners which provide education of Univ. standard, and is required to obtain reports at prescribed intervals on the efficiency of such schools. A special form of recognition may be given to an institution within the same area founded for research or the cultivation of any special branch of science or learning, and the Lister Institute of Preventive Medicine, the Maudsley Hospital, the Bethlem Royal Hospital, the School of Pharmacy, and the School of Oriental Studies have been admitted in this category.

The Senate has the power also to recognize as Teachers of the Univ. any members of the teaching staff of public educational institutions within a radius of 30 miles, whether Schools of the Univ. or not. Matriculated students of Schools of the Univ. or studying under such *Recognized Teachers* are eligible under certain conditions for registration as *Internal Students*, and are allowed, after pursuing Approved Courses of Study, to enter for the "Internal" examns. of the Univ. *External Students* may pursue their studies where and how they please, and are admitted, without any conditions as to attendance at Approved Courses, to examns. for degrees in all subjects except Medicine, Mining, and Architecture. The examns. for Internal and External students are in some cases separate, in others identical, but the statutes require that "the degrees conferred on both classes of students shall represent as far as possible the same standard of knowledge and attainments."

Since the reconstitution of the Univ., its two original colleges, University Coll. in 1905 and King's Coll. in 1908, have been incorporated in it, the Senate, which is the supreme Univ. body, taking over the responsibility for their administration.

LIBRARIES. The Libraries belonging to and connected with the Univ.

contain in the aggregate about half a million volumes, distributed over every branch of knowledge. The Univ. Library in the Central Building, S. Kensington, contains about 100,000 volumes and pamphlets. It provides well-equipped special collections to promote research work and also serves as a lending library from which students can borrow expensive works for home study. It includes the Goldsmiths' Library of Economic Literature (45,000 vols.), which is restricted to purposes of research and reference. The British Library of Political Science at the London School of Economics has 160,000 vols. There are, in addition, large departmental libraries in the several Colleges and various collections of books on special subjects, too numerous for mention. Access can also be obtained to the library of the British Museum (2½ million printed books), the Record Office, the Royal Colonial Institute Library (150,000 vols. and pamphlets relating to the Empire overseas, including India), and other collections described in *Libraries of London* (v. *infra*—Publications).

MUSEUMS. Among the many Museums which, in addition to those belonging to the Schools and Institns. of the Univ., are accessible to students in London are the British Museum (Antiq. and Nat. Hist.); Horniman (Anthrop. and Zool.); London; Parkes (Sanitary Science); Practical Geol.; Roy. Archit. Soc.'s; Roy. Coll. of Surgeons'; Science, S. Kensington (Mech., Nav., and Struct. Engin., Phys., Maths., Chem., Physiog., Geol., and Biol.); Sir John Soane's (Art and Antiquarian); Victoria and Albert, S. Kensington (Archit. and Sculpture, etc.).

LABORATORIES. The most important are mentioned in the sub-sections relating to the several colleges. The following are not attached to any college:

The Brown Animal Sanatory Institution, 149 Wandsworth Rd., Vauxhall, S.W.8. Superintendent—F. W. Twort, M.R.C.S., L.R.C.P. Established in 1871 for "investigating, studying, and, without charge beyond immediate expenses, endeavouring to cure maladies, distempers, and injuries, any quadrupeds or birds useful to man may be found subject to." It contains a Hospital, in which the diseases and injuries of animals are treated, and a Laboratory, where the investigation and study of diseases of animals are carried on. Both In- and Out-Patients (some 5 or 6 thousand per annum) are treated. Clin. students may be admitted to the Vet. Depts., and Research students are received in the Lab.

The Institute of Historical Research, Malet St., W.C.1, is the University Laboratory of History, devoted exclusively to post-graduate and research work. It is situated close to the British Museum, and consists of a systematically planned series of seminar libraries, provided with the books containing or describing the main sources of mediæval and modern history (especially those whose manuscript originals are in the Record Office and other London Archives). It is open not only to every professor, reader, or other teacher of history in the Univ., and his research students, but to historians, archivists, and teachers and research students from other Univs., approved by the Committee. *Chairman of Committee*, A. F. Pollard, M.A., Litt.D., F.B.A., Prof. of Engl. Hist.; *Secretary* and *Librarian*, H. W. Meikle, M.A., D.Litt., Advisor to External Research Students in History.

FACULTIES. 1. Theology. 2. Arts. 3. Laws. 4. Music. 5. Medicine. 6. Science. 7. Engineering. 8. Economics and Political Science. Deans: 1. Bishop Gore (see p. 152). 2. Prof. Butler (Univ. Coll., Classics). 3. Prof. Gutteridge (p. 168). 4. Stewart Macpherson of the R.A.M. 5. Sir Cuthbert Wallace (p. 162). 6. Principal J. L. S. Hatton of East London College. 7. Prof. Lamb (East Lond. Coll.). 8. Prof. Dicksee (Lond. Sch. of Ec.).

Standing Committees of the Senate. The more important are—The Academic

Council, the Council for External Students, the Board to Promote the Extension of Univ. Teaching, the Matricn. Board, the Establ. and Genl. Purposes, Finance, Library, and Scholarships Committees. There are 26 other Committees besides the 44 Boards of Studies.

TERMS for Univ. and Inter-collegiate courses, 1925–26: Oct. 8-Dec. 18, Jan. 14-March 26, April 29-June 30.

DEGREES. B.D., D.D.; B.A., M.A., D.Lit.; LL.B., LL.M., LL.D.; B.Mus., D.Mus.; M.B., B.S., M.D., M.S.; B.D.S.; B.Pharm.; B.Sc., M.Sc., D.Sc.; B.Com., M.Com.; Ph.D. (in Faculties of Theol., Arts, Science, Engin., and Econ.).

The B.Sc. and D.Sc. are granted in the Faculties of Science (including Pure Sc., Agric., Hortic., Vet. Sc., and, for External students, Estate Management, and, for Internal students, Household and Social Science—B.Sc. only), Engineering, and Economics; the M.Sc. in Science (including Agric., Vet. Sc., and, for Internal students, Hortic. and Household and Social Science), and Engineering and, for Internal students, Economics.

ADMISSION. The Univ. holds 3 times a year in London and twice a year in certain Provincial centres a Matricn. examn. open to all persons of 16 yrs. of age and upwards. The examn. can also be held by special arrangement in any of the British Colonies or Dominions. Candidates are required to pass on one and the same occasion in 5 subjects: English, Maths., Latin or Greek or a scientific subject, 2 other subjects of which one must, if neither Latin nor Greek is chosen for 3rd subject, be a language. The General School examn. (v. p. 112), if passed in a combination required for Matricn., is equivalent to the Matricn. examn., and several other examns. are also accepted on conditions as exempting from it, namely, those numbered 2, 6, 7, 8(*a*), 8(*b*), 9, 10, 12, 19, in Appendix XX., and School-leaving examns. of the Univs. of Adelaide, Melb., and W. Aust.

STUDENTS FROM OTHER UNIVERSITIES.—The graduates of any of the Univs. of the United Kingdom and of some overseas Univs.* can also claim exemption. Other students of 19 yrs. of age and upwards who present certificates of Matricn. in Colonial Univs. or Indian or foreign certifs. from educational authorities indicating an education equivalent in their own country to that required in England for the Matricn. examn. may apply for *examination under Statute* 116 (in lieu of taking the Matricn. examn.) with special reference to the line of study they propose to follow. This examn., which it has been the practice to hold four times a year, is described on p. 638. Students who do not propose to proceed to a degree are not required to pass any Univ. examn., but must submit evidence that they are sufficiently advanced in their studies.

PERSONS OVER 25 YEARS OF AGE who in virtue of professional qualifications or otherwise are specially qualified to proceed to a Degree course may apply for examn. under Statute 116. See the preceding paragraph.

EXTERNAL students preparing for the Bachelorship undergo Intermediate and Final examns. at intervals prescribed in the Regns., and approximating (except in Med., Dental Surgery, and Vet. Sc.) to 3 yrs. in all. Copies of all Regns. may be obtained gratis and post free from the External Registrar.

* Namely: In Canada—Alb., Br. Columbia, Dal., King's, Laval, McG., McM. (B.A. only), Manit., Montreal, Queen's, Tor., Vict.; Australasia—Adel., Melb. Qld., Syd., Tas., W.A. (Arts, Sc., Agr., Eng.), N.Z.; S. Africa—Cape, Cape Town, S. Afr., Stell.; India—Aligarh, All., Benares, Bom. (L.M. and S. also recognized), Calc., Dacca, Delhi, Lucknow, Mad., Mys., Nagpur, Panj., Rang.; Hong-Kong.

EXAMINATIONS IN THE OVERSEAS DOMINIONS. Certain of the examns. of the Univ. for External students are held not only in London and at Provincial centres within Great Britain, but also in certain of the overseas Dominions of the Empire. In India only the examns. in the Faculty of Theol. are thus held, but the Matricn. examn. and the examns. in Theol., in Arts, in Laws, and in Economics have been held at 70 Colonial centres. In Ceylon the Univ. examns. in Science and Arts have also been held under special arrangement; in this latter case with certain modifications of the Regns., such as have made them suitable for the special needs of the Colony in question; with the result that the Ceylon Govt. now awards its scholarships upon the results of these Univ. examns.

An INTERNAL student before being allowed to enter as such for any examn. must, unless specially exempted, have attended Instruction courses in all the subjects thereof. For a first Degree in any Faculty he must have completed an Approved Course of Study extending over at least 3 yrs. which must, ordinarily, have been continuously pursued, but not necessarily all at one institution. A minimum number of hours of attendance is as a rule prescribed for each course, and a reduction is allowed in the case of an evening student who is certified by an employer to be engaged in his service for not less than 25 hours a week. The Interm. course generally extends over 1 yr. As a general rule, Honours may be taken at the Final examns. A course of study extending over not more than 1 yr. taken in another Univ. approved for the purpose subsequently to a student's passing the Interm. may be accepted subject to regns. in lieu of a course taken in this Univ.

Any person who has passed the Interm. examn. as an *External* student may be allowed to take the final examn. for the first degree after having attended for 2 years as an Internal student an approved course of study for it, but the degree will not be conferred until a further year's course of approved study has been pursued.

ARTS. In both Interm. and Final (Pass) examns. 2 langs. must be taken, including either Latin with Rom. Hist., or Greek with Greek Hist. Natives of Asia or Africa may apply for permission to substitute for Latin or Greek—Classical Arabic, Sanskrit, Pali, Classical Hebrew, or Classical Chinese. The Honours subjects for the Final examn. are Archæol., Chinese, Classics, Hebrew and Aramaic (including Syriac), Hist., Geog., Maths., Philos., Psych., Engl., French, Ger., Ital., Portuguese, Span., Slavonic Studies, Indo-Aryan, Arabic, Persian, Japanese, also Celtic for External students, and, for Internal students, Greek, Latin, Dutch, Scandinavian Langs., Anthropology, Sociology.

The B.A. course in Archit. extends over 5 yrs., but graduates of approved Univs. may be exempted from such part of the earlier years' courses of study and examns. as the Senate may determine.

The M.A. is conferred in Archæol., Class., Hist., Maths., Mediæval and Mod. Langs., Oriental Langs., Philos., Educn., Geog., and, for Internal students only, in Comp. Philol., Psychol., Slavonic Studies, and Sociology. Internal students are required (except in Maths.) to submit a thesis. In some cases candidates must have taken Honours at the B.A. examn. External students may take the M.A. examn. 2 yrs. after graduation in Arts. Candidates may only take 1 branch or section at a time. In most there is a *viva-voce* examn.

The D.Lit. is open to M.A.'s and Ph.D.'s only (except as regards students excused under Statutes 113 and 129—v. p. 110), and is conferred for original work; minimum age—30, or 5 yrs. after passing Ph.D. or M.A. examn.

Diplomas. Teacher's, 1 yr. course for graduates and others similarly qualified (also for External students); Fine Art (3 yrs.); Dramatic Art

(2 yrs.); Slavonic studies (2 yrs.); History (4 yrs. part-time or 1 yr. full-time); History of Art (4 yrs. part-time); Journalism (2 yrs.); Literature (4 yrs. part-time or 1 yr full-time); Town Planning and Civic Archit. or Civic Engin. (2 evenings a week for 2 terms or 1 day a week for 3 terms); Academic Dip. in Geog. (180 hours); External Dip. in Geog.; Sociol., etc. (v. *infra*, Econ.); Librarianship (2 yrs. for day students, 3-5 yrs. for evening students); Academic Dip. in Psychology; Academic Dip. in Theology.

SCIENCE. For the Interm. examn. Pure or Applied Maths. or Physics must be taken with 3 other subjects. For Final (General) examn. any 3 of the following may be selected: Pure Maths., App. Maths., Astron., Physics, Chem., Geol., Bot., Zool., Physiol., Psych., Anthrop., Milit. Studies, Logic and Method (Ext. students), Statistics (Int. students). For B.Sc. (Special) examn. a student selects 1 principal and (except in case of Human Anatomy and Morphology or Maths.) 1 subsidiary subject. Honours may be awarded at both B.Sc. (General) and B.Sc. (Special) examn. Internal students may take the B.Sc. "by research" (v. p. 110). For the M.Sc. for Internal students a thesis is required except in Maths.

Among other subjects of advanced study which may be offered by candidates for the M.Sc. degree is "The Principles, History and Method of Science." University College, King's College, and the Imperial College co-operate in providing a course in this subject.

For the Degree in Agric. the Interm. examn. includes Chemistry, Botany, Zoology, and Physics; the Final—Agric., Bio-Chem., Agric. Bot., and Agric. Engin. In Horticulture the subjects for the Interm. are Chem., Bot., Zool., Physics, Geol., and Surveying; for the Final, Practice of Hortic., Book-keeping, Principles of Hortic., and Entom. For the Degree in Vet. Sc. there are 4 examns. to be taken in their proper order: Prelim. (Inorganic Chem. and Physics), Interm. Pt. I. (Organic Chem., General Biol., and Vet. Anat.), Pt. II. (Vet. Physiol.), and Final (Vet. Pathol. and Vet. Hyg.). There is no Doctorate in Agric. or in Vet. Sc., Bachelors of Science (Agric. or Vet. Sc.) being held to be eligible for the ordinary D.Sc. For the Degree in Household and Social Science there are 3 examns.: 1st Interm. (Phys., Inorg. Chem., Biol., and Social and Econ. Hist.); 2nd (Chem.—Org. and Phys., Gen. and Econ. Biol., Principles of Econ.); and Final (App. Chem., Physiol. and Bio-Chem., Hygiene and Bacteriol., and Household Work). For the Degree in Estate Management there are 2 examns., Interm. and Final. Interm.: Pt. I.—Surveying, Econ., and Agric. or Town Planning; Pt. II.—Accounting and Land Law; (Pts. I. and II. may be taken separately). Final: Pt. I.—Land and Buildings Valuation, Taxation and Tithe, Land Law; Pt. II.—Building Construction, and *either* A (Agric., Forestry, Agric. Law) *or* B (Town Planning, Urban Pub. Sanitation, Munic. and Local Govt. Law). Pts. I. and II. may be taken separately.

THEOLOGY. The Interm. course is in Bibl. Langs., Greek, Lat., and Psych. and Ethics; the Final in Old Test., New Test., Bibl. and Hist. Theol., Church Hist., Philos. Introdn. to Theol., and a selected subject. The Honours examn. is distinct from the Pass, and may be taken 1 yr. after graduation in Div.; the subjects are Hebrew and Aramaic, including Syriac, Greek N.T. and Apocrypha, Church Hist., Bibl. and Hist. Theol., Study of Religion. Candidates for the D.D. degree must have taken Honours in Theol. in this Univ.

LAWS. The subjects of the Interm. course are Rom. Law, Engl. Const. Law and its Hist., Jurispr., and Crim. Law and Crim. Procedure, *or* Indian Penal Code and Crim. Procedure. Candidates for the LL.M. degree are examined in two selected subjects. Candidates for the LL.D. degree before

1929 must have taken Honours at the LL.B. examn. or subsequently unless specially exempted.

MEDICINE. The course extends normally over 5½ yrs. In the first yr. courses in Inorg. Chem., Phys., and Genl. Biol. in preparation for the 1st examn. for Med. degrees are taken. The 2nd and 3rd yrs. are devoted to Org. Chem. (the only subject at Pt. I. of the 2nd examn.), Hum. Anat. and Embryol., Physiol., Pharmacol. Pt. II. of the 2nd examn. is normally taken 18 mos. after passing the 1st. In the Final course for the M.B., B.S. degrees the subjects are divided into 2 groups as follows: Group I.—Med., Path., For. Med. and Hyg.; Group II.—Surg., and Obstetrics and Gynæcology. The groups may be taken separately or together, but degrees are not conferred until candidates have passed in both groups.

Institutions outside the U.K. certificates from which for the complete course of Med. educn., including Clin. Med. and Surg. preparatory to the M.B., B.S. degrees, are accepted by the Univ. of London: Univs. of Bishop's Coll., McGill, Adel. (with Infirmary), Melb. (with Melb. and Alfred Hospls.), Syd. (with Infirmary and Prince Alfred Hospl.), N.Z. (with Dunedin Hospl.); following Indian Med. Colleges—Grant (Bombay), Bengal (Calcutta), Lahore, Madras; Med. Coll., Colombo; Univ. of Malta; Sch. of Med., Cairo.

The M.D. may be taken in any of the following: Med., Path., Psych. Med., Midw. and Dis. of Women, State Med., Trop. Med.

The M.S. may be taken in Surg., Dent. Surg., Ophth., or Laryn., Ot., and Rhin.

For the M.D. or M.S. a thesis or published work may be submitted.

The course for the B.D.S. extends normally over 5 years—there are four examns. The subjects of the Final examn. are Dental Surgery, Operative D.S. and Orthodontics.

Diploma in Psychological Medicine.

MUSIC. The subjects for the Interm. examn. in and after 1927 will be Harmony and Counterpoint, Form and Analysis, and Hist. of Mus. For the B.Mus. the subjects of examn. in and after 1927 will be Composition, Hist. and Criticism of Music. Every candidate for the B.Mus. must submit a musical exercise. For the D.Mus. there is a written examn., and a musical exercise is also required.

ENGINEERING. Interm. examn. subjects: Pure Maths. and Applied Maths., Heat, Elec. and Magn., Engin. Drawing and Design, and either Sound and Optics or Chem. or Geol. In the Final examn. in *Engin.* not less than 5 subjects are taken, a wide choice being allowed; in *Mining* 6, of which Mining Geol. and Mineral., Mining, Mine Surveying, Mineral Dressing, and Assaying are compulsory; in *Metall.* 6, of which Metall., Metall. Analysis, Metallography and Pyrometry, Electro-Metall., and Fuel and Refractory Materials, are compulsory. For an Honours degree in Engin., Mining, or Metall. at least 1 extra subject must be taken at the Final examn. and a higher standard reached in all the subjects taken.

ECONOMICS. The Interm. examn. for B.Sc. (Econ.) is in 2 parts, which may be taken together or on different occasions. Pt. I.—Elements of Econ., Geog., Mathematics or Logic or French or German. Pt. II.—English Econ. Hist., British Constitution or Elements of English Law. For the Final—Econ., Hist. of the Great Powers, Political Sc., and a selected subject. Passages are set from French and German works for translation and comment.

For the B.Com. the Interm. examn. is in 2 parts, which may be taken together or on different occasions. Pt. I.—Elements of Econ., Geog., an approved Modern Lang. Pt. II.—English Econ. Hist., accounting as applied to Traders and Trading Companies, or a subsidiary Approved Mod. Foreign

Lang. The B.Com. examn. is in 2 parts: I.—the Present Organization of Industry, Banking, Trade, and Transport; Econ. Development of the Empire; Elements of Comml. Law; Statistical Method; II.—A selected group of subjects.

Diplomas. Academic Dip. in Sociology and Social Administration (2 yrs'. course, at least 150 hours in each); Dip. in Economics and Social Sc. (4 yrs.' part-time or shorter full-time course).

MILITARY EDUCATION. See Appendix I. Military Studies is one of the optional subjects for the Interm. and Final (Pass) B.A. and B.Sc. examns. The Officers' Training Corps Contingent supplied 4200 officers for the war, of whom 650 are known to have fallen.

POST-GRADUATE STUDY AND RESEARCH. In most of the Colleges and Schools of the Univ. special arrangements are made for Research students, and the facilities offered are not restricted to Internal graduates of the Univ. Under Statutes 113, 113*a*, and 129 External graduates and graduates of, and persons who have passed the degree examns. of, other approved Univs. are allowed, under certain conditions, to enter as Internal students for the degree of Bachelor or Doctor in the several Faculties (but not in Medicine and Surgery), and for the degrees of Master of Arts and Master of Science. Application for registration may be submitted with evidence of graduation, etc., through the authorities of the College, School, or Institution at which the applicant proposes to study, and supported by their certificate of his fitness to undertake a course of study or research with a view to the proposed degree, and that they are willing to supervise his work. An Overseas student may himself submit an application on the prescribed form, and the Univ. will, if so requested, advise as to the selection of the College, School, or Institution at which, and Teacher under whom, he should study. Application for such advice should be addressed to the Academic Registrar. Overseas students should apply for registration before coming to London, and their applications should reach the Univ. by May 1, or, if from Australia or New Zealand, March 1, to enable them, should their applications be successful, to enter upon their course of study in Oct., *i.e.* at the beginning of the Session. Students whose applications are approved are required to pursue a course extending over at least 2 yrs. (v. *infra*—Publications).

An Internal student who is a candidate for the Ph.D. degree must have previously graduated in the Univ. in the faculty of Theology, Arts, Science, Engineering, or Economics, or have been registered as a candidate for the degree under Statute 113 or 129. An Internal student is further required to pursue a course of study of not less than two years' full-time, or four years' part-time, training in research and research methods. Any graduate of the Univ. may become a Candidate for the Ph.D. degree as an External Student on receiving the approval of the Council for External Students.

The B.Sc. degree, in the Faculties of Science and Econ., may also be taken "by Research" by Internal students under Statute 112. Candidates must have attained the age of 19 and must have passed the Interm. examn. The research must extend over at least 2 yrs.

FEES.—Matricn.—2½ gs.; Examn. and Graduation—15 gs. (Med., 29 gs.) for first Degree. Other Degree fees, 10 to 20 gs. Tuition, see the sections relating to the several colleges.

STUDENTSHIPS AND SCHOLARSHIPS. Studentships are awarded by the Senate in aid of advanced work or research. These include one of £50 p.a. for 1 or 2 yrs., open to students of Univ. Coll. in Maths.; one of £100 in Archæology; one of £50 in Physiology; £100 and £140 in Arts; £100 in Econ.;

£200 for the man or woman who, being resident in London and a graduate of the Univ., has done most in the preceding 5 yrs. to advance Medical Art or Science; £200 for a graduate of a British Univ. for the promotion of post-graduate research; 2 Univ. *Travelling Scholarships* of £275 each, open to Internal and External graduates in all faculties, and 3 Univ. studentships of £150 each, open to Int and Ext. graduates in Theol, Arts, Laws, Music, and Engineering. The Gilchrist Trustees provide funds for two Studentships, viz. one of £100 for a woman graduate preparing for a profession; and one in Mod. Langs., £80, open to a B.A. who took Honours in French or German, for a course of study abroad with a view to the profession of teaching. Three Scholarships of £50 each for 1 yr. are awarded annually for proficiency in Oriental Langs. The Scholarships Pamphlet obtainable post free on application to the Univ. gives details of many others. See also next para.

THE COMMERCE DEGREE BUREAU exists to help in their studies External (especially extra-London) students proposing to take the Commerce Degree examns., to assist in the employment of Commerce Degree students and graduates at home and abroad, to provide a reference and lending library for students, and generally to promote the value and usefulness of the Commerce degree. Offices were opened in 1922 under a Board of Governors at 46 Russell Square, W.C.1, where the work of the Bureau is associated with the general UNIVERSITY APPOINTMENTS BOARD work. There is a Bureau Educational Advisory Staff (Chief Advisor: Prof. A. J. Sargent, M.A.). Prospectus and enquiry forms obtainable on application to the Secretary, H. J. Crawford, B.A.

The *Sir Ernest Cassel Travelling Scholarships* (4) of £200 to £300 each, open to British students who pass Part I. of Final Examn. in Commerce in 1925, and propose to pursue study of Commerce abroad.

RESIDENCE. Hostels recognized by the Senate: Univ. Hall of Residence, 10 and 11 Carlyle Square, Chelsea; Univ. Coll. Hall, Ealing, for 52 men students (fees for residence, 30s. to £3 a week); College Hall, Byng Place, Gordon Square, W.C., for women students; King's Coll. Theological Hostel, Vincent Square; The Platanes, Denmark Hill, S.E., for King's Coll. and its Med. School. Residence is also provided at or in connexion with the S.E. Agric. Coll., Wye, Bart's, Guy's and Middlesex Hospl. Med. Schools, the Theological Colleges at Hampstead and Highbury, and the Women's Colleges.

A UNION SOCIETY on the lines of those of Oxford and Cambridge was founded in March 1921. Address—University Union, Malet St., W.C.1. There is also an ASSOCN. OF LONDON GRADUATES. A UNIVERSITY COUNTRY CLUB at Chequers was formed (by a private company) in 1924.

UNIVERSITY EXTENSION DEPARTMENT. The work of the *Board to Promote the Extension of Univ. Teaching* falls under the following heads: (*a*) Univ. Extension Lectures and Tutorial Classes for Working-people; (*b*) Holiday Courses for Foreigners; (*c*) Inspection and Examn. of Schools; (*d*) Examn. for the Certif. in Religious Knowledge; (*e*) Examn. for Certificate of Proficiency in English and examns. for the Certifs. in Danish, French, German, Italian, Norwegian, Russian, Spanish, and Swedish; (*f*) Examns. for Diplomas in History, Literature, Economics and Social Science, History of Art; (*g*) Examn. for Diploma in Psychological Medicine; (*h*) Examn. for Diploma in Dramatic Art.

(*a*) *Univ. Extension Lectures* have been carried on by the Board since 1902 (prior to that, since 1876, by the London Society for the Extension of Univ. Teaching). The work is restricted to the area within 30 miles of the Central Offices of the University. Courses are held, at about 60 centres, on Hist., Lit., Art, Econ, and Social Sc., Philos., Psychology, and Nat. Sc. A class

is held in connexion with each lecture, and students are encouraged to do regular paper-work for the lectr. An examn. for certifs. may be held at the end of each Sessional (24 or 25 lectures) or Terminal (10 or 12 lectures) course. A few short courses (5 lectures) of a *pioneer* or illustrative character are arranged; in connexion with these there is no examn. Continuous study over several years is encouraged by the Vice-Chancellor's Certif. of Continuous Study (awarded to students who obtain 4 Sessional Certifs. in subjects chosen from certain groups) and by the *Diplomas in the Humanities* (Hist., Lit., Econ. and Social Science, Hist. of Art), awarded, under the Seal of the Univ., to students who carry on an approved co-ordinated course of study covering 4 yrs., and pass the required examns. *Diplomas in History* and *Literature* are also awarded on the result of One Year Full-time study.

The *Tutorial Classes for Working-people* are under the immediate direction of a Joint Committee of 7 members nominated by the Board and 7 nominated by the Workers' Educational Association. The classes extend over 3 consecutive years, and membership is usually limited to about 24 students, who undertake to attend regularly and to do regular paper-work for the Tutor. Certifs. are not awarded. There were 45 classes in 1924–25.

(*b*) A *Holiday Course* for Foreigners is held annually in London during four weeks from the middle of July. Special stress is laid upon Phonetic teaching. The course is designed to widen the student's knowledge not only of the Engl. Lang., but of English customs, institns., and art, by means of lectures, classes, a choral society, excursions, etc. The total number of students admitted to the course is limited to about 260, and the number in each class to 8. During the 16 years 1904–1914 and 1919–1925 the course was attended by 4222 students from 40 countries.

(*c*) *Inspection and Examination of Schools.* A close relationship between examination and inspection has been carefully and continuously developed by the Univ. Extension Board. The County Councils of Surrey and Middlesex have placed their Secondary Schools to the number of 62 under the Univ. for regular inspection and for the holding of the School examns., the local authority in each case making a special financial arrangement with the Univ. The Board of Educn. and the Univ. inspect alternately and exchange Reports.

Inspection may include either a general inspection of the whole school or a special inspection of certain subjects or groups of subjects. It may be so combined with the Certificate examns. that these form an integral part of it. It may also include an examn. carried on by the Inspectors and the Staff of the school in co-operation. This system of combined inspection and examn. is known as Examinational Inspection, and is capable of considerable variation to meet the requirements of any particular school.

The *Examinations for School Certificates* are held only in Schools inspected by the Univ. or under other approved inspection; the course of study in the school must also be approved. The examns. are of 3 grades: I. Higher, II. General, and III. Junior; for I. the (*a*) Higher School, (*b*) Intermediate (Arts or Science or Commerce or (in 1927) Economics) Certif.; II. the (*a*) School, (*b*) Matricn., or (*c*) School Commercial Certif.; and III. the Junior School Certif., respectively. Certifs. I. (*a*), II. (*a*), and II. (*c*) are not awarded until the pupil leaves school. The examn. fees are from 1 to 3 gs.; or 6 gs. if for Intermediate Cert.

The *Higher and General School Examinations* are recognized by the Board of Education as "Second" and "First" examns. (v. p. 4) respectively, and the Certifs. I. (*a*) and II. (*a*) awarded to candidates attending schools recognized by it as efficient Secondary Schools are attested by it. A candidate who

takes the *Higher* with a view to qualifying for an External Intermediate Certif. offers for examn. the same syllabuses as those of the Ext. Interm. examns. The combination of subjects that may be taken at the General School examn. offers greater variety than is the case in the Matricn. examn., and a pupil who reaches the necessary standard at one and the same examn. in a combination required for Matricn. is entitled on payment of the registration fee of 17s. 6d. to be registered as a Matriculated student of the Univ., if or when he has attained the prescribed age.

The *Junior School Examination* is intended for pupils about the age of 15.

In the case of each of the School examns. an Inspector visits the school for the purpose of conducting an oral examn. in such Mod. Langs. as are taken. Practical examns. in Science are optional, except in the case of grade I. and in Genl. Elem. Science at grade II., in which they form an essential part of the examn.

(*d*) The *Examination for the Certificate in Religious Knowledge*, instituted in 1909, is held once a year in June. It may be held at certain of the Provincial centres at which the June Matricn. examn. is appointed to be held, as well as in London.

(*e*) *Examinations for the Certificates in French and in German* (instituted in 1913), in *Italian, Russian, and Spanish* (instituted in 1919), and in *Danish, Norwegian,* and *Swedish* (instituted in 1921), are held in July or as may be arranged; in *English* ((1) for foreigners, (2) for English born; instituted in 1920) in Aug. or as may be arranged. They are intended primarily for teachers who are not specialists in, but who require a Certif. testifying to their practical working knowledge of, the language, both spoken and written.

(*f*) The *Examinations for the Diplomas in History; Literature*—English Lang. and Lit. or General Lit.; *Economics and Social Science*; *History of Art*—are held once a year for students who have followed a recognized course of study for 4 yrs. as part-time students or for a shorter period as full-time students.

(*g*) The *Examn. for the Diploma in Psychological Medicine* is held twice a year, in March and Apr. and in Oct. and Nov., and is open to candidates whose names are in the Medical Register. There are two varieties of this Dip., for those desiring to specialize in Mental Diseases and in Mental Deficiency respectively.

(*h*) The *Examn. for the Diploma in Dramatic Art* is held once a year, in July, and is open to students of not less than 17 years whose general education satisfies the Board and who have studied at least two years at Training Schools or Institutions where courses have been approved.

[*Further information and copies of the Regns. may be obtained from the University Extension Registrar, University of London, South Kensington, S.W.7.*]

PUBLICATIONS. The following are obtainable from the Univ. of Lond. Press, Ltd., 17 Warwick Sq., London, E.C.4:

The Calendar, pubd. in Sept., price 6s. net, postage 9d. *Regns. and Courses for Internal Students* (the "Red Book"), pubd. in Sept., 2s. 6d., postage 9d. The Courses are pubd. separately for the several Faculties, The *Regulations for External Students* (the "Blue Book"), pubd. in Sept., 1s. 6d. net, postage 6d.; *London Univ. Gazette*, pubd. at average intervals of 4 weeks; the Examn. Lists are pubd. in Supplts.; annual subs., including postage, 5s.; single no., 8d. *Matriculation Pamphlet*, issued after each Examn., containing the Regns. and Examn. Papers, 1s. 8d. post free. *Examn.* Papers, published as soon as possible after the several Examns.; prices vary from 1s. 1d. to 3s. 10d. *Libraries of London*: a Guide to Students, by R. A. Rye, Goldsmiths' Librarian,

6d., postage 3d.; 2nd edition, 2s. 6d., postage 6d. *Historical Record of the Univ.*, pubd. in 1912; contains (*a*) a Hist. of the Univ.; (*b*) the Univ. Charters, and Acts of Parliament referring to the Univ.; (*c*) former Fellows; (*d*) Donations and Trusts; (*e*) Graduates; (*f*) persons to whom prizes, etc., have been awarded, and other information of historical interest; 5s. net., postage 6½d. Students' *Union Magazine* monthly, *Vincula* fortnightly.

Regulations. The following may be obtained on application to the Univ.: Regns. for Matricn.; Regns. for Int. and for Ext. Students (pubd. separately) for Degrees in Arts, Science, Agric., etc.; for the various Diplomas and Certificates in special subjects; for Ph.D. Degree; Scholarships pamphlet. Applications for any of these should be addressed to the Principal.

O.T.C. Handbook obtainable from the Secy., 46 Russell Sq., W.C.1.

Regns. for Admission of Students from other Univs. as Candidates for Higher Degrees (except in Med. and Surg.), Regns. under Statute 129, and *Regns. under Statutes* 113*a* and 125*a*, obtainable from the Academic Registrar.

THE YEAR 1924–25

Benefactions. For the Council year, April 1925–1926, Bucks County Council made a grant (£100) for the first time. Grants from Essex, Kent, Surrey, East Ham, West Ham, and Southend L.E.A.'s were renewed, and those of Mddx., Herts, and Croydon were raised by £1500, £300, and £200 respectively. Mrs. Sigismund Goetze gave £3000 for a studentship (literature); newspaper proprietors £2200 for exhibitions for courses in Journalism; Cassel Trustees renewed for 5 yrs. grants of £3000 p.a. for Modern Language Instruction and £1000 for travelling scholarships (faculty of Commerce); the Vintners' Coy. renewed their Commerce scholarships. Grants-in-aid of Univ. Extension Work were made by several charitable and other bodies. Bequests: Miss A. J. K. Davidson, for Old Testament Studies; A. Jubber, £5000 for scholarships, etc., in advanced subjects; Miss Soames, for Phonetics.

New Posts. Chairs of Geography at Lond. Sch. Econ., Pathology at Lond. Sch. Med. for Women, Chinese (in place of Readership) at School of Oriental Studies, (1) Anatomy and (2) Bio-Chemistry at Middx. Hosp. Med. School. Readerships in Mathematical Analysis at Univ. Coll., Serbo-Croatian Language and Literature at King's Coll.

Other Developments. Scheme whereby in return for an annual payment the facilities of the Inst. of Historical Research are made available to a limited number of graduate students of other Univs. both at home and abroad. New degrees of B.Pharm., LL.M., and M.A. Degree in Sociology for Internal Students. Changes in regulations for the M.Sc., B.Sc. (Agric.), and Teachers' Diploma for Internal Students. Reorganization of teaching of Military Science. New Boards of Studies in Comp. Philology and in Pharmacy. Admission as School of the Univ. in the Faculty of Medicine: the School of Pharmacy of the Pharm. Society of Great Britain (for 5 yrs., in Pharmacy). The recognition of the London School of Economics in the faculty of Arts was extended to include History and Anthropology. The Senate nominated their first representatives upon the Board of Management of the new School of Hygiene and Tropical Med. The grant for Scholarships was increased by £1800 to £3000 a year and 2 Univ. post-graduation Travelling Studentships and 3 Univ. studentships were established. Additional grants were made to the Union Society, Athletic Union, Publication Fund, and Commerce Degree Bureau for Appointments Board's work. The establishment of a Music Library (to include gramophone records and pianola rolls as well as scores and

books) was approved. The University was for the first time represented at Henley Regatta. An experimental scheme for affording *guidance in their studies to External students* was instituted.

NUMBER OF STUDENTS admitted during the year 1924—total, 8202; by matriculation examn., 6141; as graduates of other Univs., 360; under Statute 116, 901. Candidates at examns.: Matriculation, 18,873; for first degrees, 3724; for higher degrees, 349. Of 4073 candidates for degrees, 2463 were Internal and 1610 External. Total number of Internal students (1924–1925), 9091.

UNIVERSITY EXTENSION. There were slight increases in the number of lecture courses, and in the average attendance at classes after lectures of the sessional courses. For Diploma work 524 students were registered (increase of 55). The London Holiday Course for Foreigners was attended by 256 students (increase of 20).

UNIVERSITY OF LONDON, UNIVERSITY COLLEGE

CHAIRMAN OF THE COLLEGE COMMITTEE—THE VISCOUNT CHELMSFORD, G.C.S.I., G.C.M.G., G.C.I.E., G.B.E.

VICE-CHAIRMAN—Sir JOHN ROSE BRADFORD, K.C.M.G., C.B., C.B.E., M.D., D.Sc., F.R.C.P, F.R.S.

TREASURERS—F. V. SCHUSTER, B.A.; A. DIGBY BESANT.

PROVOST—Sir GREGORY FOSTER, B.A., Ph.D.

SECRETARY—W. W. SETON, M.A., D.Lit., Dr. J., F.S.A.

TUTOR TO WOMEN STUDENTS—WINIFRED SMITH, B.Sc.

LIBRARIAN—L. NEWCOMBE.

PROFESSORS, LECTURERS, ETC.

Anatomy

Smith, G. Elliot, M.A. Camb., Litt.D., M.D., M.S. Syd., D.Sc., F.R.C.P., F.R.S. Prof.
Hill, J. P., D.Sc. Edin., F.R.S. Prof. (*Embryol.*).
Woollard, Herbert, M.D., B.S. Melb. Asst. Prof.
Harris, H. A., M.B., B.S., B.Sc., F.Z.S. Sr. Demr. & Curator.
2 Hon. Lectrs. (*Radiology*) and 2 Hon. Research Assts.
7 Demrs. and Assts.

Anthropology, Cultural [Reader.
Perry, W. J., M.A. Camb.

Archæology, v. also Ass., Egyp.
Gardner, E. A., Litt.D. Camb. Yates Prof.

Architecture [Prof.
Richardson, A. E., F.R.I.B.A.
Adshead, S. D., M.A. Liv., M.Arch., F.R.I.B.A. Prof. (*Town Planning*).
Stratton, Arthur, F.R.I.B.A., F.S.A. Reader and Tutor.
Jaggard, W. R., F.R.I.B.A. Lectr. (Building Constn.).
Corfiato, H. Sr. Asst.
1 Asst.

Art (*Fine Arts*)

Tonks, H. Slade Prof.
Borenius, Tancred, Ph.D. Helsing Prof. (History of Art).
Russell, W. W., A.R.A. Asst. Prof.
Steer, P. Wilson Asst. Prof.
Mawson, Sidney Lectr.
Porter, A. T., M.A. Camb. Lectr.
Child, C. Koe Sr. Asst.
6 Assts.

Assyriology

Pinches, T. G., LL.D. Glas. Lectr.

Astronomy, v. Maths.

Bio-Chemistry, v. Physiol.

Botany

Oliver, F. W., M.A. Camb., D.Sc., F.R.S. Quain Prof.
Hill, T. G., A.R.C.S. Reader (Plant Physiol.).
Haas, P., Ph.D. Freib., D.Sc. Reader (Plant Chem.).
Salisbury, E. J., D.Sc. Reader (Plant Ecol.).
Smith, Winifred, B.Sc. Lectr.
Cutting, E. M., M.A. Camb. Sr. Asst.
2 Assts.

Celtic
Flower, R. E., B.A. Ox. Lectr.

Chemistry
Collie, J. Norman, Ph.D. Würz., LL.D. Glas., D.Sc. Liv. and Belf., F.R.S.
Prof. (Organic C.) and Dir. of Labs.
Donnan, F. G., C.B.E., M.A., Ph.D. Leip., D.Sc. Liv., F.I.C., F.R.S. Prof. (General C.).
Brady, O. L., B.A. Cape, D.Sc., F.I.C. Reader (Org. C.).
Garner, W. E., M.Sc. Birm. and Lond. Reader (Physical C.).
Evans, H. J., B.Sc.
Sr. Lectr. (Med. Students).
Goodbody, F. W., B.A. Dub., M.D. Lectr. (Med. C.).
Terrey, H., B.Sc.
Lectr. (Inorganic Analyt.).
Gilbert, L. F., B.Sc. Asst. Lectr.
Bailey, C. R., B.A., M.Sc.
Asst. Lectr.
Barratt, S., B.A. Asst. Lectr.
Day, J. N. E., B.Sc., A.R.C.S., A.I.C. Asst. Lectr.
Sowerby, A. L. M., B.A., M.Sc.
Asst. Lectr.
Thierry, E. H., M.Sc. Asst. Lectr.
1 Asst.

Chemical Engineering
Williams, E. C., M.Sc. Manc.
Ramsay Prof.
Moore, Burrows, M.Sc., Ph.D., F.I.C. Asst. Lectr.

Classics
Smiley, M. T., M.A. Dub.
Prof. (Greek).
Butler, H. E., M.A. Ox.
Prof. (Latin).
Solomon, L., M.A. Ox. Sr. Lectr.
Pocock, L. G., M.A. Asst. Lectr.
2 Assts.

Danish, v. Scand.

Dutch History
Geyl, P., Lit.D. Leyd. Prof.

Dutch Lang. and Lit.
Haantjes, J., Lit.D. Utrecht
Reader.

Economics, v. Polit.

Economic Geography
Lyde, L. W., M.A. Ox. Prof.
Shackleton, Margaret R., B.A.
Sr. Asst.
Matthews, H. A., B.A. Asst. Lectr.
Forde, C. D., B.A. Asst. Lectr.

Egyptology and Coptic
Petrie, Sir Flinders, D.C.L. Ox., LL.D. Aberd., F.B.A., F.R.S.
Edwards Prof.
Murray, Margaret A. Asst. Prof.
1 Hon. Asst.

Embryology, v. Anatomy

Engineering, Electrical
Fleming, J. A., M.A. Camb., D.Sc., F.R.S. Pender Prof.
Clinton, W. C., B.Sc., M.I.E.E.
Asst. Prof.
Hawkins, C. C., M.A. Ox., M.I.E.E.
Lectr.
Barlow, H. E. M., B.Sc., Ph.D.
Asst. and Lectr. (Design).

Engineering, Civil and Mechanical
Coker, E. G., M.A. Camb., D.Sc. Edin., F.R.S., M.Inst.C.E. (*Dean*) Prof.
The Prof. of Munic. Eng.
Reader (Surveying).
Davidge, H. T., B.Sc., M.Inst.E.E.
Sr. Lectr.
Lloyd-Evans, B. J., B.Sc.
Sr. Lectr.
Barker, A. H., B.A., B.Sc.
Lectr. (Heating and Ventilating).
Cookson, A. C., M.Inst.C.E.
Lectr. (Railway E.).
Cunningham, Brysson, D.Sc. Belf., B.E. N.U.I., M.Inst.C.E.
Lectr. (Waterways, Harbours, and Docks).
Sprague, E., A.M.Inst.C.E.
Sr. Asst.

Webb, A. E., B.Sc., A.M.Inst.C.E. Sr. Asst.
Collins, H. J., M.Sc. Birm. Asst. Lectr.
1 Hon. Research Asst., 3 Assts.

Engineering, Municipal
Ormsby, M. T. M., A.R.C.S. Dub., M.Inst.C.E.I. Chadwick Prof.
1 Asst.

English [Quain Prof.
Chambers, R. W., M.A., D.Lit.
Sisson, C. J., M.A. Edin., D.-ès-L. Dijon Reader.
Grattan, J. H. G., B.A. Sr. Lectr.
Blackman, Elsie, M.A. Sr. Lectr.
Doughty, O., M.A., B.Litt. Ox. Sr. Lectr.
Foster, Sir Gregory, B.A., Ph.D. Stras. Lectr.
Baker, E. A., M.A., D.Lit. Lectr.
Batho, Edith C., M.A. Sr. Asst.
Hitchcock, Elsie V., B.A., Ph.D Sr. Asst.
1 Asst., 1 Demr.

Eugenics, Applied Statistics and
Pearson, Karl, M.A. Camb., LL.D. Aberd. and St. And., F.R.S. Galton Prof.
Greenwood, M., M.R.C.P., M.R.C.S. Reader (Med. Stats.).
Elderton, Ethel M. Asst. Prof., Galton Research Fellow.
Stocks, P., M.A., M.D., B.Ch. Camb., D.P.H. Med. Officer.
5 Assts. and 4 Hon. Research Assts.

French, v. also Hist.
Brandin, L. M., M.A., Ph.D. Greifs. Fielden Prof.
Mackie, Marie D. Lectr. (and at Bedford Coll.).
Jeaffreson, J. W., M.A. Sr. Asst.
3 Assts.

Geography, v. also Ec.
Lyde, L. W., M.A. Ox. Prof. (Economic G.).
The Prof. of Munic. Engineering Reader (Surveying).
3 Assts.

Geography, Physical, Geology and Mineralogy
Garwood, E. J., M.A., Sc.D., F.R.S. Yates-Goldsmid Prof.
Elsden, J. V., D.Sc. Lectr.
Goodyear, Edith, B.Sc. Sr. Asst.
1 Demr.

German
Priebsch, R., Ph.D. Graz Prof.
Robertson, J. G., M.A., B.Sc. Glas., Ph.D. Leip. Prof.
Perrett, W., B.A., Ph.D. Jena Reader.
2 Assts.

Hebrew, v. also Semitic
..... Goldsmid Prof.

History, v. also Art and Medicine
Montague, F. C., M.A. Ox. Astor Prof. (Mediæval & Modern H.).
Pollard, A. F., M.A. Ox., Litt.D. Manc., F.B.A. Prof. (English H.).
Davis, Eliza Jeffries, M.A. Reader (London H.).
Aston, Maj.-Gen. Sir George, K.C.B. Lectr. (Military H.).
Seton, Walter W., M.A., D.Lit., F.S.A. Hon. Lectr. (Scottish H.).
Thornley, Isobel D., M.A. Asst. Lectr.
Bellot, H. H., M.A. Asst. Lectr.
Vaucher, Paul, D.-ès-L. Paris Prof. (Mod. *French* H.).
Cary, M., M.A., D.Litt. Ox. Reader (Ancient H.).
Baynes, Norman H., M.A. Ox. Reader (Roman Empire).
3 Assts.

History and Method of Science
Wolf, A., M.A. Camb., D.Lit. Prof. (Logic & Scientific Method).

Hygiene and Public Health
Delafield, M.E., B.A., M.B., D.P.H. Acting Head of Department.
Foulerton, A. G. R., F.R.C.S., D.P.H. Camb. Lectr.
Marchant, F. T., M.R.San.I. Sr. Asst.

Italian
Gardner, E. G., M.A., Litt.D. Camb. Prof.
Pellizzi, C., Dr.J. Sr. Lectr.
Cippico, Senator A., Dr. J. Graz Hon. Lectr. (Modern I. Lit.).
1 Asst.

Journalism [Tutor.
Solomon, Lawrence, M.A. Ox.

Law, v. p. 168

Librarianship
Baker, E. A., M.A., D.Lit. Director and Lectr.
Newcombe, L. Asst. Dir.
7 Assts.

Mathematics (Applied) and Mechanics
Filon, L. N. G., B.A. Camb., M.A., D.Sc., F.R.S. Prof. and Dir. of Observatory.
The Senior Lectr. (Davidge) in Civil and Mech. Engin.
Harris, H. J., B.A. Sr. Lectr.
Jessop, H. T., M.Sc. Sr. Lectr.
Gregory, C. C. L., M.A. Camb., F.R.A.S. Asst. Lectr. (*Astronomy*).
2 Assts.

Mathematics (Pure) [Astor Prof.
Jeffery, G. B., M.A., D.Sc.
Wren, T. L., M.A. Camb. Reader (Geom.).
Titchmarsh, E. C., B.A. Ox. Reader (Math. Analysis).
Harris, H. J., B.A. Sr. Lectr.
Howland, R. C. J., M.A., M.Sc. Sr. Lectr. to *Engineering* students.
Wood, Florence M., M.A. Sr. Asst.
3 Assts.

Medicine, History of
Singer, C., M.D., D.Litt. Ox. F.R.C.P. Lectr.
2 Hon. Research Assts.

Military Studies [Lectr.
Phillips, Lt.-Col. G. P. A., O.B.E.

Norwegian, v. Scand.

Pharmacology
Clark, A. J., M.D., B.A. Camb., M.R.C.P., D.P.H. Prof.
1 Asst.

Philology
Thomas, F. W., M.A., Ph.D. Lectr. (Comparative P.).
Priebsch, R., Ph.D. Prof. (Germanic P.).
Brandin, Louis M., M.A., Ph.D. Prof. (Romance P.).

Philosophy and Psychology
Hicks, G. Dawes, M.A., Litt.D. Manc., Ph.D. Leip. Prof. (Philos.).
Spearman, C., Ph.D. Leip., F.R.S. Grote Prof. (Mind & Logic).
Flugel, J. C., B.A. Ox. Sr. Lectr.
Philpott, S. J. F., B.Sc. Asst. Lectr.
Hopkins, Prynce, Ph.B., M.A. Hon. Asst. Lectr.
2 Assts. and 2 Hon. Demrs.

Phonetics
Jones, Daniel, M.A. Camb. Prof.
Perrett, W., Ph.D. Jena, B.A. Reader (German).
Armstrong, Lilias E., B.A. Sr. Lectr.
Jones, S., B.Sc. Wales Laboratory Supt.
Ward, Ida C., B.Lit. Durh. Sr. Asst.
Lloyd-James, A., M.A. Camb. Sr. Asst.
Coustenoble, Hélène Sr. Asst.
Quick, Edith E., B.A. Sr. Asst.
3 Assts.

Physics [Prof.
Porter, A. W., D.Sc. Melb., F.R.S.

Orson Wood, D., M.Sc., A.R.C.S., F.Inst.P. Sr. Lectr.
Richards, R. C., B.A. Camb., M.Sc. Quain Lectr.
Smith, J. H., M.Sc. Liv. Asst. Lectr.
Bates, L. F., B.Sc. Bris., Ph.D. Camb., F.Inst.P. Asst. Lectr.
Eumorfopoulos, N., B.Sc. Hon. Research Asst.
3 Assts.

Physiology
..... Jodrell Prof.
Drummond, J. C., D.Sc., F.I.C. Prof. (*Bio-Chem.*).
Harris, D. T., M.B., B.S. Wales, Ch.B. Manc., B.Sc. Asst. Prof.
Anrep, G. V., M.D. Petrograd, D.Sc. Sr. Asst.
Cannan, R. K., M.Sc. Sr. Asst. (Bio-Chem.).
5 Assts., 4 Hon. Assts., 3 Demrs.
Starling, E. H., C.M.G., M.D., B.S., Sc.D. Camb. and Dub., F.R.C.P., F.R.S. Foulerton Prof. (Royal Soc.).

Political Economy
Foxwell, H. S., M.A. Camb., F.B.A. Prof.
Higgs, H., C.B., LL.B. Newmarch Lectr.

Scandinavian Studies [Director. Prof. Robertson (German)
Helweg, J. H., Cand. Mag. Copenhagen Lectr. (Danish).
Gröndahl, I. C., Cand. Mag. Christiania Lectr. (Norwegian).
Kihlbom, Asta M., Fil. Lic. Uppsala Lectr. (Swedish).

Semitic (North) Epigraphy
Hirschfeld, H., Ph.D. Stras. (Goldsmid Lectr. in Hebrew) Lectr.

Statistics, v. Eugenics

Tibetan
Thomas, F. W., M.A. Camb., Ph.D. Munich Reader.

Town Planning, v. Archit.

Zoology and Comparative Anatomy
Watson, D. M. S., M.Sc. Manc., F.R.S. Jodrell Prof.
Fraser, Elizabeth, D.Sc. Sr. Lectr.
Stephenson, T. A., D.Sc. Sr. Asst.
2 Assts.

GENERAL INFORMATION

Address—Gower St., W.C.1. Telegrams—University College, London. Telephone—733 Museum.

Founded in 1826 and opened Oct. 1, 1828, under the name of "The University of London," the College was incorporated as "University College, London," by Royal Charter in 1836. On Jan. 1, 1907, it was incorporated in the University of London.

LIBRARIES (containing, in all, 255,000 bound volumes and pamphlets): (1) General, including Barlow (Dante), Blackburne (Law), Carnegie (American History and Institns.), Field (Fine Art), Graves (Maths.), Leighton (Philos.) Morris, Quain (Law), Ricardo (Polit. Econ.), Strong (Oriental), and Whitley Stokes (Celtic) collections, and the Bentham MSS.; (2) Science, including Fownes (Chem.), Graham (Chem.), and Grant (Zool.) collections, and an exceptionally complete collection of scientific journals; (3) Medical Sciences, including Sharpey (Anat. and Physiol.) collection; (4) Special Arts Libraries for: Archit., Classical Archæol. (Yates), Classics and Anc. Hist., Egyptol. (Edwards), English, French, German, Italian, Hist., Jewish Hist. and Antiq.

(Mocatta), Librarianship, London Hist., Philos. and Psychol., Phonetics, and Scandinavian.

MUSEUMS. Anat., Archit., Bot., Egypt., Engin., Geol. and Mineral., Vulcanological (Johnston-Lavis Collection), Zool. Two Astron. OBSERVATORIES.

FACULTIES. Arts, Laws, Science, Engineering, Medical Sciences. Deans: Prof. Hicks (Philos.), G. H. Hurst, Prof. Porter (Physics), Prof. Coker, Prof. Clark (Pharmacology).

COURSES. Arts, Laws, Science, Engineering, Medical Prelim. and Intermediate, Hygiene. Open to students of both sexes. The Arts Faculty includes Slade School of Fine Art, School of Librarianship, School of Journalism, and Bartlett School of Archit. The Engineering Faculty includes Departments of Civil and Mechanical (with sub-depts. of Graphics, Surveying, and Heating and Ventilating), Electrical and Municipal Engineering. A *Diploma* in Engin. is given after a 3 yrs.' course, and *Certificates* in Engin. (2 yrs.); a Diploma in Archit. (5 yrs.) and a Certificate in Archit. (3 yrs.).

All departments of the College are available for POST-GRADUATION AND RESEARCH WORK, and the respective Professors are always prepared to advise such students desirous of undertaking research, whether for higher degrees or otherwise.

DEPARTMENT OF APPLIED STATISTICS. The *Francis Galton Laboratory for National Eugenics* was founded in 1904 for the study of those agencies under social control that may improve or impair the racial qualities of future generations, either physically or mentally. It is open to Research students in Eugenics of both sexes. The *Drapers' Company's Biometric Laboratory*, founded 1895, for the statistical study of biological problems, possesses a good collection of calculating machines, integrating mechanisms, moment-finders, as well as a large series of statistical models, measuring instruments, etc. Research workers can start any time during the session, but, unless attending the lectures in the Dept., are expected to have a preliminary training either in Biology or Maths.

Courses of Instruction are given on Statistics and cognate subjects, and also short courses of popular lectures. Fees (for Research workers): per Term, £4 : 14 : 6. A Fee of 17 gs. per session admits to the Eugenic and Biometric Labs. on all days and to all lectures, as well as to the use of the Library and of the material in the Archives. Fee for use of calculating machines, 1½ gs. per term. For list of publications, v. *infra*.

THE BARTLETT SCHOOL OF ARCHITECTURE was established by the combination of the Archit. Schools of University and King's Colleges. The Certificate (3 yrs.) and Diploma (5 yrs.) courses are recognized by the R.I.B.A. as exempting from the R.I.B.A. Intermediate and Final examns. respectively. The accommodation includes three large Studios, a Museum, a Cast Gallery, a Library, a Lecture Theatre, and a Class Room. Rooms are also provided for the Department of Town-Planning instituted in Oct. 1914. The day work is supplemented by evening classes in design. There is an Atelier for graduates and advanced students.

FOREIGN STUDENTS are admitted to the College on the same terms as British. They are expected to produce identification papers. In August a *Vacation Course* is held in Phonetics and Spoken English (Director: Prof. Daniel Jones). Men attending that Course can reside at University College Hall, Ealing. Special courses in Aspects of British Life and Civilization take place *throughout the session*. The Secretary will always advise foreign students by correspond-

ence or personal interview as to the cost of residence in London and as to suitable houses. The Ramsay Memorial Fellowships in Chemical Science founded by certain Foreign Governments are tenable at Univ. Coll., London, among other places; four Fellows from overseas are now working there.

FEES. Composition for 3 sessions' course in Arts—98 to 105 gs.; 5 sessions' course in Archit.—228 gs.; B.Sc.—135 to 140 gs.; Engin.—168 gs.; Econ.—21 gs. per session; Med. for 1st examn.—35, 2nd—80 gs.; Laws—Day 24 gs., Evening 18 gs. per session; Fine Art—28 gs. per session; for Higher Civil Service—50 gs. (35 gs. to those who have taken undergraduate course at the College).

SCHOLARSHIPS, ETC. Annual value, about £2400.

RESIDENCE. A Hall for 52 men at Ealing, £2 to £3 a week. One for women in Byng Place, W.C.1.

PUBLICATIONS. *Calendar* (Oct.), 3s. 6d.; *Annual Report*; *Union Societies' Magazine*; the various Faculty and Departmental Prospectuses; *Prospectus* of post-graduate courses and arrangements for research. Dept. of Applied Statistics: *Annals of Eugenics*, a Journal for the scientific study of Race Problems, vol. i.; *Eugenics Lab. Memoirs* (i.-xxi.) and *Lecture Series* (i.-xiii., popular exposition of conclusions); *Treasury of Human Inheritance* (10 parts). *Biometrika* Journal (i.-xvii.); Drapers' Company Research Memoirs, *Biometric Series* (i.-xii.), and *Studies in Natural Deterioration* (i.-xii.); Drapers' Company *Technical Series* (i.-vii.); *Tracts for Computors* (i.-xii.). Ephemeral papers published in *Questions of the Day and the Fray* (i.-xii.).

THE YEAR 1924–25

BENEFACTIONS. Annual: Drapers' Company, £500 for Biometric Lab.; per Italian Ambassador, £300 for Italian; L.C.C., £500 for Scandinavian Studies (renewed for 2 yrs.); Chadwick Trustees, £250 for Sanitary Science. Special Treasury Grants of £2000 (Science Library) and £1000 (cloak-room accommodation); £1600 for Chemical Research and £200 for scheme for practical work in decoration by selected students of Slade School (both anonymous). Bequests of James Eccles, £2000; Miss Laura Soames, £5 p.a. for prize in Phonetics, and Kenneth P. Hawksley, £250 for Engineering Lab. For Scandinavian Studies, per W. P. Ker Memorial Fund, £376, and per Studies Committee, £232; War Memorial Committee of College and Hospital, £2000 for Scholarships or Bursaries, £563 towards cost of Memorial Hall, £50 for Memorial Tablet; per theTurkish Minister, collection of Ottoman Law Books. Proprietors of *The Builder* and *The Architects' Journal*, Annual Prizes value £15 for Architecture; Liverpool Nitrate Company, Spectroscopic outfit for Dept. of Chemistry.

NEW DEPARTMENTS OR POSTS. Lectureships in Ottoman Law and Inorganic Analytical Chemistry; Hon. Lectureship in Modern Italian; Univ. Readership in Mathematical Analysis.

REPRESENTATION OF FELLOWS. Fellows of the College to be invited to submit annually names of three of their body with a view to one being selected for membership of the College Committee.

ACCOMMODATION PROVIDED FOR CONFERENCES of Educational Assocns. (Jan.), of School Nature Study Union (Feb.), of Educational Assocns. (June), of English-Speaking Ophthalmological Societies (July).

RELATIONS WITH TECHNICAL SCHOOLS. Arrangements for co-operation with

Pharmaceutical Society of Great Britain and East-Anglian Institute of Agric., whereby students of those institutions will take certain courses of study at the College.

INTERCHANGE OF TEACHERS, ETC. Visit of Dean and other members of Medical Faculty of Univ. of Lyons, June 8, 1925. Public Lectures at the College by Prof. Ferdinand Brunot, Univ. Paris; Prof. Vilhelm Grönbech, University, Copenhagen; Prof. Rashkovitch, Technical Sanitary Institute, Petrograd; Prof. J. Strzygowski, Vienna; E. R. Adair, lectured in Holland (History); Prof. R. W. Chambers (English Lang. and Lit.), at British Inst. in Florence; Prof. Daniel Jones (Phonetics), at Smith College, Northampton, Massachusetts, and at Congress of Swiss Teachers, Basel; Mr. A. Lloyd-James (Phonetics), at the Sorbonne, Paris; Prof. A. F. Pollard (English History) at Colombia Univ. and Barnard College, U.S.A.; Ida Ward (Phonetics), in Germany; C. J. Sisson, Reader in English Lit., arranged to work in Univ. of Wisconsin, 1925–26; Miss Isobel Thornley, Asst. Lectr. History, was elected temporary Assoc. Prof., Vassar College, U.S.A. Rockefeller Travelling Fellowships were obtained by R. K. Cannan, Katharine Coward and H. A. Harris; and a Univ. Travelling Studentship by Helga Pearson.

DEATHS. Prof. Sir W. Bayliss (General Physiol.); Prof. J. Arthur Platt (Greek), succeeded by M. T. Smiley, formerly Lectr., Univ. Liverpool. RETIREMENT. Prof. A. F. Murison (Chairs of Roman Law and Jurisprudence). RESIGNATIONS. Prof. H. R. Kenwood (Hygiene and Public Health); Senator Prof. Cippico (Italian); Im. Björkhagen, Lectr. (educational appt. in Stockholm); N. B. Dreyer, Asst. (appt. in Inst. of Physiology, Dalhousie Univ.); A. Stanley Furner, Asst. (Senr. Lectr. in Archit., Univ. of Witwatersrand); Pieter Harting, Reader (Prof. of English Lang. and Lit., Univ. of Groningen); B. H. Knight, Asst. Lectr. (Chief Engineering Asst., Metropolitan Boro' of Woolwich); J. E. Neale, Asst. Lectr. (Prof. of Mod. History, Univ. Manchester); J. Wheatley, Asst. (Prof. of Fine Art, Cape Town Univ.).

OTHER IMPORTANT OCCURRENCES. Visit of Prince and Princess Arthur of Connaught to open Ramsay Laboratory of Chemical Engineering, Nov. 12; visit of 140 Australian Cadets under auspices of League of the Empire, Feb. 7; opening of Johnston-Lavis Geophysical Collection by Sir Henry A. Miers, June 25; visit of Prince Arthur of Connaught to present First Copy of Petrie Medal to Prof. Sir Flinders Petrie, July 7.

STUDENTS. Full-time, preparing for first degree or diploma, 1492 (including women—701); graduates, 181 (women—39); total, 1673 (w.—740). Part-time undergraduates, 274 (w.—133); graduates, 269 (w.—74). Occasional, 790 (w.—448). Taking preparatory courses, 27 (w.—7). DEGREES OBTAINED: B.A., 83 (w.—56); B.Sc., 90 (w.—34); LL.B., 9 (w.—1); B.Sc.(Eng.), 32; M.A., 6 (w.—1); Ph.D., 13 (w.—2); M.Sc., 15 (w.—1); D.Sc., 4; D.Sc.(Eng.), 1; M.D., 1 (w.); LL.D., 4.

EXTENSION WORK, ETC. Accommodation provided for Summer School of Tutorial Classes, May 1925. Summer Vacation Courses: Spoken English for Foreign Students, French Phonetics for English Teachers; Summer School in Paris in connexion with School of Librarianship. Public Lectures and Advanced University Lectures held at the College. Total number: 200. Attended by an aggregate of 14,825 persons.

UNIVERSITY OF LONDON, KING'S COLLEGE AND KING'S COLLEGE FOR WOMEN

CHAIRMAN OF THE DELEGACY—VISCOUNT HAMBLEDEN.

VICE-CHAIRMAN—A. J. ALLEN.

TREASURER—Sir EDWARD TROUP, K.C.B., K.C.V.O., LL.D.

PRINCIPAL—ERNEST BARKER, M.A., D.Litt. Ox., LL.D.

SECRETARY—S. T. SHOVELTON, M.A. Ox.

TUTOR TO WOMEN STUDENTS—ADA E. LEVETT, M.A. Ox.

LIBRARIAN—F. W. WALTON, M.A.

PROFESSORS, LECTURERS, ETC.

Anatomy, Descrip. and Surgical

Barclay-Smith, E., M.A., M.D., B.Ch. Camb. Prof. (A. and Anthrop.).

Gladstone, R. J., M.D., C.M. Aberd., D.P.H., F.R.C.S. Reader (Human Embryology) and Lectr. (A. and Anthrop.).

Compton, A., F.R.C.S. Lectr. (Applied A.).

3 Demrs.

Anthropology, v. Anat.

Art

Dearmer, P., D.D. Ox. Lectr.

Assyriology

Gadd, C. J., M.A. Ox. Hon. Lectr.

Smith, S., M.A. Camb. Hon. Lectr.

Bibliography, v. English

Biology, v. Zool.

Botany and Plant Biology

Gates, R. Ruggles, M.A. Mt. Allison, B.Sc. McG., Ph.D. Chic., F.L.S. Prof.

Schwartz, E. J., M.A., D.Sc. Lectr.

Chapman, R. E., M.Sc. Leeds Asst. Lectr.

1 Demr.

Chemistry

Smiles, S., O.B.E., D.Sc., F.R.S., F.I.C. Daniell Prof.

Allmand, A. J., D.Sc. Liv., F.I.C. Prof.

Cremer, H. W., M.Sc., F.I.C., A.M.I.Chem.E. Lectr.

Fairbourne, A., M.A. Ox., M.Sc. Manc., F.I.C. Lectr.

Salmon, C. S., M.Sc. Bris. Lectr.

Asst. Lectrs.:

Dolley, L. G. F., B.Sc., Ph.D.

Gray, L. T. M., B.Sc.

McClelland, E. W., D.Sc., Ph.D., A.I.C.

2 Demrs.

Classics, v. also History

Thomson, J. A. K., M.A. Prof.

The Principal Lectr.

Knight, Clara M., D.Lit. Reader.

Hall, E. B., M.A. Lectr.

Handford, S. A., B.A. Ox. Asst. Lectr.

Bevan, E. R., O.B.E., M.A., D.Litt. Ox., LL.D. St. And. Lectr. (Hellenistic Greek and *History*).

Czecho-Slovak, v. Slav.

Economics, v. Hist.

Education

Wilson, J. Dover, M.A. Camb. [Prof.
Showan, P. B., M.A. Liv. Sr. Lectr.
Farrow, Betsy, M.A. Asst. Lectr.
1 Asst.

Engineering, Civil

Jameson, A. H., M.Sc. Manc., M.I.C.E. Prof.
Lobban, C. H., D.Sc. (Eng.), A.M.I.C.E., M.I.Struct.E. Sr. Lectr.
White, C. M., B.Sc. Asst. Lectr.

Engineering, Electrical

Wilson, Ernest, M.I.C.E., M.I.E.E. Siemens Prof.
Robertson, F. Steele, M.I.E.E. Sr. Lectr.
Clarke, H. M., B.Sc., B.Sc. (Eng.) Lectr.

Engineering, Mechanical

Cook, Gilbert, D.Sc. Manc., A.M.I.C.E., M.I.Mech.E. Prof.
Genève, C. A., B.Sc. (Eng.), A.C.G.I., A.M.I.Mech.E., M.I.Struct.E. Sr. Lectr.
Campbell, H. G., B.Sc. (Eng.) Durh., A.M.I.Mech.E. Lectr.

English

Gollancz, Sir Israel, Litt.D. Camb., F.B.A. Prof.
Pollard, A. W., C.B., M.A. Ox., D.Litt. Durh. Prof. (E. *Bibliography*).
Reed, A. W., M.A., D.Lit. (also Tutor for *Journalism* courses) Reader.
Day, Mabel, M.A., D.Lit. Lectr. (E. *Philology*).
Ingram, E. Gwendolen, M.A. Lectr. (E. *Philology*).
Isaacs, J., B.A. Ox. Asst. Lectr. (E. Lit.).
Harrison, G. B., M.A. Camb. Asst. Lectr. (E. Lit.).
Scripture, E. W., Ph.D. Hon. Lectr. (*Phonetics*).
1 Asst.

French

Spiers, V., M.A. Ox., B. ès L. Paris Prof.
Shears, F. S., B.A., D. de l'U., Paris Reader (*Romance Philol.*).
Webb, C. D., M.A., D.Lit., B.Sc. Lectr.
Hughes, R. W., M.A. Ox., Dip. d'E.S., Paris Lectr.
Jones, R. A., B.A. Asst. Lectr.
2 Assts.

Geography

The Profs. of Botany, Geol., Civil Engin., Imperial Hist., Physics (in conjunction with staff of London School of Economics).

Geology

Gordon, W. T., M.A. Camb., M.A. Edin., D.Sc. Prof.
Wells, A. K., M.Sc. Lectr.
Wooldridge, G. W., B.Sc. Asst. Lectr.

German

Atkins, H. G., B.A. Camb., M.A., D.Lit. Prof.
Steppat, J., Ph.D. Vien., B.A. Reader.
Buchheim, Emma S. Lectr.
Haltenhoff, A. G. Lectr.
Rose, W., M.A. Lectr.

Greek, Modern, and Byzantine Hist.

..... Koraes Prof.

Hebrew

Box, G. H., M.A. Ox., D.D. St. And. Lectr.

Histology, v. Physiol.

History, v. also Classics, Greek, Slav., Roum.

Hearnshaw, F. J. C., M.A. Camb., LL.D. Dub. Prof.
The Principal Lectr.
Newton, A. P., B.Sc., D.Lit. Rhodes Prof. of Imperial H.
Warmington, E. H., M.A. Reader in Ancient H.

Sykes, N., M.A., D.Phil. Ox., M.A. Leeds
Lectr. (Mediæval H.).
Levett, Ada E., M.A. Ox. Lectr.
Chew, Helena M., M.A.
Asst. Lectr.
Jenkins, C., M.A. Ox., D.D.
Prof. (Eccl. H.) and Reader (Greek and Latin Palæog.)
Conway, R. S., M.A., Litt.D., F.B.A.
Lectr. in *Latin Palæog.*
Jenkinson, Hilary, M.A. Camb.
Reader (Diplomatic and English Archives).
1 Asst.

Household and Social Science, v. *infra*

Italian
del Re, Arundell, M.A. Lectr.

Journalism, v. English

Law, v. p. 168

Materia Medica and Pharmacology
Inchley, O., M.A., M.D. Camb.
Lectr.

Mathematics
White, S. A. F., M.A. Ox. Prof.
Jolliffe, A. E., M.A. Ox. Prof.
Dale, J. B., M.A. Camb., B.A.
Asst. Prof.
Shovelton, S. T., M.A. Ox. Lectr.

Asst. Lectrs.:
Henderson, J., M.A., B.Sc.
James, C. G., B.A. Camb., M.Sc.
Bath, F., B.Sc. Bris.
Davis, H. R., B.Sc.
Heath, A. C., B.A.

Military Science [Lectr.
Phillips, Lt.-Col. G. P. A., O.B.E.

Palæography, v. Hist.

Pharmacology, v. Mat. Med.

Philology, v. English, French, Slavonic

Philosophy, v. also Psych.
Carr, H. Wildon, D.Litt. Durh.
Prof.
Oakeley, Hilda D., M.A. McG.
Reader.
Matthews, W. R., M.A., D.D. (also Lectr. in Theology)
Prof. (P. of Religion).

Phonetics, v. English

Physics
Appleton, E. V., M.A. Camb., D.Sc. Wheatstone Prof.
Richardson, O. W., M.A. Camb., D.Sc., F.R.S.
Yarrow Research Prof. (Royal Society's).
Curtis, W. E., D.Sc., A.R.C.S.
Reader.
Flint, H. T., M.Sc. Birm., D.Sc., Ph.D. Lectr.
Worsnop, B. L., B.Sc. Lectr.
Williams, W. E., B.Sc. Lectr.
Fisher, Joseph W., B.Sc.
Asst. Lectr.
2 Demrs.

Physiology
McDowall, R. J. S., M.B. Edin., D.Sc. Prof.
da Fano, C., L.D. Pavia, M.D.
Reader (*Histology*).
de Souza, D. H., M.D., D.Sc., F.R.C.P. Lectr.
Hewitt, J. A., D.Sc., Ph.D. St. And., A.I.C. Lectr.

Hon. Lectrs.:
Negus, V. E., M.B., Ch.M., F.R.C.S. (Laryngology).
Pickering, J. W., D.Sc. (Hæmatology).
1 Demr.

Polish, v. Slav.

Portuguese [Camoens Prof.
Prestage, E., M.A., D.Litt.
Ross, Sir Denison, Ph.D.
Hon. Lectr.
Bentley, W. A. Lectr.

Psychology
Aveling, F. A. P., D.D. Rome, Ph.D. Louv., D.Sc. Reader.
Hadfield, J. A., M.A. Ox., M.B., Ch.B. Edin. Lectr.
Bartlett, R. J., M.Sc. Lectr.
1 Demr.

Romance, v. French

Roumanian
Beza, M., L. ès L. Lectr.
Evans, Ifor L., M.A., B.Sc. (Econ.). Lectr. in Social and Economic History.

Russian, v. Slav.

Serbian, v. Slav.

Slavonic Studies
Pares, Sir Bernard, K.B.E., M.A. Camb. Prof. (Russian Hist.), Dir. of the Dept.
Jopson, N. B., B.A. Camb. Reader (Comparative S. Philology).
Raffi, Arshak Lectr. (Russian Lang.).
Mirsky, Prince D. S., of Petrograd and Kharkov Univs. Lectr. (Russian Lit.).
Williams, H., Ph.D. Munich Lectr. (Russian Ethnog.).
Meyendorff, Baron A. F., of Petrograd Reader (Russian Institutions, etc.).
Wharton, L., M.A. Ox. Lectr. (Polish Lang. and Lit.).
Seton-Watson, R. W., D.Litt. Ox., Ph.D. Prague and Zag. Masaryk Prof. (Central European *History*).
Subotić, D., Ph.D. Munich Reader (Serbo-Croatian Lang. and Lit.).
Vočadlo, O., Ph.D. Prague Lectr. (Czecho-Slovak Lang. and Lit.).

Spanish Studies
Pastor, A. R., B.Litt. Ox., D.Ph. Madrid Cervantes Reader.
Villasante, J. M., LL.D. Madrid Sr. Lectr.
Perry, Janet, M.A. Lectr.
Carey, J. R., B.A. Lectr.

Theology, v. Philos.

Zoology and Animal Biology
Huxley, J. S., M.A. Prof.
MacKinnon, Doris L., D.Sc. Aberd. Reader.
Tribe, Margaret, D.Sc. Lectr. & Demr.
1 Demr.

Household and Social Science Department

Biology [Reader.
Esdaile, Philippa C., D.Sc. Manc.
Crofts, Doris, M.Sc. Asst. Lectr.

Chemistry [Prof.
Tinkler, C. Kenneth, D.Sc. Birm., B.Sc. Lond. and Wales, F.I.C.
Masters, Helen, B.Sc. Lectr.
Paterson, M. Joyce, B.A. Ox. ,,

Economics and Business Affairs
Burns, A. R., B.Sc. (Econ.) Lectr.

Household Work
Lindsay, Jessie Lectr.
Tress, Helen Asst. Lectr.

Institutional Administration
Shirras, Florence E. F. Lectr.

Hygiene and Bacteriology
Dukes, Cuthbert, O.B.E., M.D. Edin., M.Sc., D.P.H. Lectr.

Maternity and Child Welfare
Gregory, Hazel Chodak, M.D. Lectr.

Physiology [Prof.
Mottram, V. H., M.A. Camb.
Hartwell, Gladys, D.Sc. Lectr.
Clifford, Winifred M., M.Sc. Asst. Lectr.

Physics
Dillon, Teresa J., B.Sc. Lectr.
Hamilton Smith, Eliz. Demr.

GENERAL INFORMATION

Address—Strand, W.C.2. Telephone—207 Gerrard.

Founded by Royal Charter in 1829 for " instruction in the various branches of Literature and Science and the doctrines and duties of Christianity," King's College consisted at first of a School and Departments of General Literature, Science, and Medicine, to which were added successively Engineering, Theological, and Oriental Depts. The Hospital was built in 1839; the Evening Classes were started in 1856, and a Women's Dept. in 1881. In 1910 the College School became a separate Corporation, the Hospl. and Advanced Med. School were made independent, the other Depts. (except the Theological) doing work of University standard were incorporated in the Univ. of London, while the Council remained the governing body of the Theol. Dept., which became a School of the Univ. In 1915 the Arts and Science Departments of King's College for Women, previously housed in South Kensington, were transferred to the buildings of King's College, and the Household and Social Science Department to new buildings on Campden Hill. In 1925 the School of Slavonic Studies and the Slavonic Library were transferred to rooms in the Institute of Historical Research (Malet Street).

LIBRARY, 65,000 vols., including the Marsden (Philol. and Oriental), Skeat and Furnivall (English), Wheatstone (Electricity, etc.), Slavonic, and Byzantine and Modern Greek collections.

LABORATORIES AND MUSEUMS. Anat. (Hughes Collection), Comp. Anat., Biol., Bot., Chem., Engin., Geol. and Mineral., Mat. Med., Metall., Pharmacol., Phys. (George III. Museum), Physiol. (including Bio-Chem. and Histol.), Psych., Zool.

FACULTIES. Arts, Laws, Natural Science, Medical Science, Engineering, Theology. Deans: Prof. Atkins (German), H. J. H. Mackay, Prof. Smiles (Chem.), Prof. Barclay-Smith (Anat.), Prof. Jameson, Rev. W. R. Matthews.

Evening Class Department (classes in connexion with faculties of Theology, Arts, Laws, and Science). Dean, Prof. Sir Israel Gollancz.

DEGREE COURSES in Arts, Science, Laws, Engineering. Prelim. and Interm. courses in Medicine, and courses for the First and Second Examns. for Dental Degrees. Day Training College under the Board of Education. Dept. for training secondary Teachers (men and women).

Engineering students receive preliminary work-shop training in their first year. Facilities are provided for spending half of each summer vacation in engineering works. Those taking 4-years' course spend part of each year (18 months in all) in practical training.

College Diploma course in Engineering, ordinarily 3 yrs. The *Associateship*, open to men and women who have graduated after a three-years' course and have also attended a prescribed course in Divinity. *Certificates* in Palaeography, Italian, Hebrew, Spanish, Portuguese, Russian, Czecho-Slovak, Serbo-Croat, and Polish.

THE HOUSEHOLD AND SOCIAL SCIENCE DEPARTMENT (Warden—Miss Helene Reynard, M.A.) at Campden Hill Road, W.8, continues to be a Department of King's College for Women, though in the main practically separate. It provides full degree courses for the B.Sc. in H. and S.Sc. Tuition Fees, 45 gs. per session. Residence from 75 to 93 gs. Number of full-time students in 1925, 142.

ADVANCED STUDY. Special facilities in English (including Bibliography),

History (especially Mediæval, Colonial, Naval, Eastern Europe, and Ancient), Slavonic, Spanish, Portuguese, Modern Greek, Education, and several Depts. of Science.

FEES. Tuition per Session, including fees for games, library, and union society: Arts, 30 to 37 gs. (Psychology, Honours course, 34 gs.); Science, 35 to 50 gs.; Med., 35 to 40 gs.; Laws, 18 to 24 gs.; Engin., 48 to 60 gs.

SCHOLARSHIPS FOR GRADUATES. In Arts 2, aggregate value £115 p.a.; Science 3, ag. value £290 p.a.

RESIDENCE. Two hostels for men (one Theol. for 65 men and one general for 80 men), and one for (40) women (these Hostels are recognized by the Board of Education); also Q. Mary's Hostel and Annexe in the Household and Social Sc. Dept. buildings at Campden Hill with accommodation for 130.

A REGISTER OF FORMER STUDENTS is maintained, in which changes of address are recorded without charge.

PUBLICATIONS. *Calendar*, 4s. 6d. post free; K.C. *Review*; K.C. *Magazine* (Students—Household and Social Science Dept.).

THE YEAR 1924–25

BENEFACTIONS. Jugo-Slav Government, increase of grant, enabling the Lectureship in Serbo-Croatian to be raised to a Readership; F. Godwin, £100 for the Evening Class Faculty; Founders' Company, annual Engineering Entrance Scholarship of £40 p.a. for 3 years; Rumanian Government endowment of lectureship for 3 years on the Social and Economic History of Central Europe.

NEW LABORATORIES were built on the roof for the Depts. of Physiology, Zoology, and Geology, at a cost of £8000. NEW DEPARTMENT. Day Training in Education open to women. The Dept. of Bacteriology and Public Health was closed as from July 31, 1925, owing to establishment of the new School of Hygiene and Tropical Medicine. OTHER NEW DEVELOPMENTS. Works of capital importance were purchased for the Library from a special Treasury grant of £2500. A new Departmental Library was created for students of French. An annual scholarship was instituted in the Dept. of Physiology for research in Public Health problems.

RESIGNATIONS. Prof. Sir W. J. R. Simpson, Prof. Hewlett, D. Sommerville, F. E. Taylor, W. Partridge and R. Charles (on the closing of the Dept. of Bacteriology and Public Health); Prof. W. C. F. Walters; Hubert Hall, M. L. W. Laistner (appointed Prof. of Anc. Hist. in Cornell Univ.); Sydney Boyd; J. H. Jones. DEATHS. Prof. A. Dendy (Zoology); R. F. Thomson.

STUDENTS. Full-time undergraduates in the Faculty of Arts, 455 (including women—250); Science, 236 (women—79); Medicine, 301 (w.—68); Engineering, 127. Evening students taking a course for a degree in Arts, 286 (w.—173); Science, 37 (w.—10); Laws, 28. Graduate students, full time, 64; (w.—29); part-time, 36 (w.—15). Other part-time, 3157 (w.—794); including Banking, 1800; Teachers' Classes, 494 (w.—371); Intercollegiate, 764. DEGREES OBTAINED: B.A., 90 (w.—52); M.A., 20 (w.—10); LL.B., 7; B.Sc., 57 (w.—17); B.Sc.Eng., 30; Ph.D., 12 (w.—2); M.Sc., 13 (w.—1); D.Sc., 2.

SCHOOLS OF THE UNIVERSITY

IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

VISITOR—H.M. THE KING.

CHAIRMAN OF THE GOVERNING BODY—Rt. Hon. LORD BUCKMASTER.

RECTOR—Sir THOMAS HOLLAND, K.C.S.I., K.C.I.E., D.Sc., LL.D., F.R.S.

SECRETARY—A. GOW, M.A., B.Sc.

ASSISTANT SECRETARY AND SECRETARY TO THE DELEGACY—G. C. LOWRY, B.A.

REGISTRAR—JOHN JONES.

PROFESSORS, LECTURERS, ETC.

Aeronautics

Bairstow, L., C.B.E., A.R.C.S., F.R.S. Prof. (Aviation).
Walker, Sir Gilbert T., C.S.I., M.A., Sc.D., Ph.D., F.R.S. Prof. (*Meteorology*).
Hill, F. T., A.F.R.Ae.S., M.I.Ae.E. Asst. Prof. (Design).

Lectrs.:

Richmond, V. C., O.B.E., B.Sc., A.R.C.S. (Airships).
Rowe, A. P. (Navign.).
Farren, W. S., M.B.E., M.A. Camb. (Strength of Structs.).
Moss, H., D.Sc., A.R.C.S., D.I.C. (Engine Design).
Stern, W. J., B.Sc., A.R.C.S., D.I.C. (Engine Design).
Whipple, F. I. W. Spl. Lectr. (*Meteorology*).

2 Demrs.

Astrophysics [Prof.

Fowler, A., A.R.C.S., F.R.S. (Yarrow Research Prof.)

Bio-Chemistry [Prof.

Schryver, S. B., Ph.D. Leip., D.Sc.

Biology, v. also Bot., Zool.

Tabor, R. J., B.Sc., F.L.S. Asst. Prof.
Paine, S. G., D.Sc., F.I.C. ,, ,,
Brown, W., M.A., D.Sc. ,, ,,
Cannon, H. G., M.A. Camb., D.Sc., F.L.S. Lectr.
Howarth, F., B.Sc., A.R.C.S. Lectr.

5 Demrs.

Botany

Farmer, Sir John B., M.A., D.Sc. Ox., LL.D. Edin., F.R.S. Prof.
Blackman, V. H., M.A., Sc.D. Camb., F.R.S. Prof. (Plant Physiol. and Path.).
Groom, P., M.B.E., M.A. Ox. and Camb., D.Sc. Ox., B.Sc. Birm., F.R.S. Prof. (Tech. of *Woods & Fibres*).
Brown, W., D.Sc. Asst. Prof. (Plant Path.).

4 Research Plant Physiologists.

Chemical Technology

Bone, W. A., D.Sc. Manc., Ph.D. Heid., F.R.S. Prof.

Hinchley, J. W., A.R.S.M., F.I.C., M.I.Chem.E. Asst. Prof. (*C. Engineering*).
Finch, G. I., M.B.E., Dip. T.C. Zurich Lectr.
Brinsley, F., M.Sc. Tech. Manc. Lectr. (*Fuel*).
Hancock, W. C., B.A. Camb., F.I.C. Lectr. (*Refr. Mat. & Silicates*).
Ure, S. G. M., M.A., B.Sc. Glas., M.I.Chem.E. Lectr.
1 Demr.

Chemistry
Baker, H. Brereton, C.B.E., M.A., D.Sc. Ox., F.R.S. Prof.
Thorpe, J. F., C.B.E., D.Sc. Manc., Ph.D. Heid., F.R.S. Prof. (Organic C.).
Philip, J. C., O.B.E., M.A., D.Sc. Aberd., Ph.D. Gött., F.R.S. Prof. (Physical C.).
Whiteley, Martha A., O.B.E., D.Sc., A.R.C.S. Asst. Prof.
Harwood, H. F., M.Sc. Manc., Ph.D. Heid. Lectr.
Eldridge, A. A., B.Sc., F.I.C. Lectr.
Sugden, J. N., B.Sc. Lectr.
Ellingham, H. T., B.Sc. Lectr.
Bull, P. C., D.S.O., A.R.C.S. Lectr.
8 Demrs., 1 Asst.

Engineering, Chemical, v. Chem. Tech.

Engineering, Civil, and Surveying
Dixon, S. M., M.A., M.Sc., B.A.I. Dub., C* Prof.
Purser, J., B.A., B.A.I. Dub., M.Sc. Birm., c* Asst. Prof.
Rice-Oxley, K., A.C.G.I., c* Asst. Prof.
Wickenden, A. F., c*, A.R.I.B.A. Lectr.
1 Demr., 2 Assts.

Engineering, Electrical
Fortescue, C. L., O.B.E., M.A. Camb., E* Prof.
Mallett, E., M.Sc. (Eng.), c*, e* Asst. Prof.
Rushton, A., M.Sc. (Tech.) Manc., e* Lectr.
Sims, J. W., e*, m* Lectr.
Hopkin, D. W., e* Lectr.
Sutton, G. W., B.Sc. Lectr.
7 Demrs., 2 Assts.

Engineering, Mechanical, and Motive Power
Dalby, W. E., M.A. Camb., B.Sc., C*, M*, F.R.S. Prof.
Witchell, E. F. D., B.Sc., A.C.G.I., M* Asst. Prof.
Cruickshank, A., M* Asst. Prof.
Howard, J. V., D.Sc., m* Asst. Prof.
Smith, S. L., D.Sc., A.C.G.I., m* Asst. Prof.
Lewitt, E. H., B.Sc. (Eng.) Lectr.
Cawley, G. M., m* Lectr.
Dyson, F., B Sc., A.C.G.I. Lectr.
Collins, W., B.Sc., A.C.G.I. Lectr.
Long, J. N., B.Sc. Lectr.
4 Demrs., 16 Assts.

Forestry, v. Botany

Fuel, v. Chemical Technology

Geology, Mining Geol., and Oil Tech.
Watts, W. W., M.A , Sc.D. Camb., M.Sc. Birm., LL.D. St. And., F.R.S. Prof.
Cullis, C. G., D.Sc., M.I.M.M. Prof. (Econ. Mineralogy).
Davies, A. M., D.Sc., A.R.C.S. Asst. Prof. (Palæont.).
Illing, V. C., M.A. Camb. Asst. Prof. (Oil Tech.).
Evans, J. W., C.B.E., D.Sc., LL.B., F.R.S. Lectr. (Petrology).
Brammall, A., M.Sc., Ph.D., D.I.C. Lectr.

C*, E*, M*=M.I.C.E , M.I.E.E., M.I.Mech.E.; c*, e*, m*=A.M.I.C.E., etc.

Wolf, A. Lectr.
Milner, H. B., M.A. Camb., D.I.C. Lectr.
5 Demrs.

Mathematics and Mechanics
Chapman, S., M.A. Camb., D.Sc. Vict., F R.S. Chief Prof.
Levy, H., D.Sc. Ox., M.A., B.Sc. Edin. Prof.
Klugh, H., D.S.C., B.A. Camb. Asst. Prof.
Odell, W. L., A.R.C.S. Asst. Prof.
Sillick, W. E. G., A.R.C.S., D.I.C. Asst. Prof.
Dean, W. R., M.A. Asst. Prof.

Lectrs.:
Hodgson, T., B.A. Ox., B.Sc.
Milner, L. G., A.R.C.S.
Dickson, T. W., B.A. Ox.
Harvey, J., B.Sc., A.R.C.S.
Kebby, C. H., B.Sc., A.R.C.S.
Reeve, W., A.M.I.C.E., A.M.I.Mech.E.
12 Demrs , 2 Assts.

Metallurgy
Carpenter, H. C. H., M.A. Ox., Ph.D. Leip., A.R.S.M., M.I.M.M., F.R.S. Prof.
Merrett, W. H., A.R.S.M., M.I.M.M., F.I.C. Asst. Prof.
Courtman, E. O., A.R.S.M. Asst. Prof.
Dannatt, C. W., A.R.S.M., D.I.C., A.Inst.M.M., A.M.I.P.T. Lectr.
Chapple, H. M., A.R.S.M. Lectr.
3 Demrs.

Meteorology, v. Aero.

Mineralogy, v. Geol.

Mining, v. also Geol. [Prof.
Truscott, S. J., A.R.S.M., M.I.M.M.
Cooke, L. H., A.R.S.M., M.I.M.M. Prof. (Mine Surveying).
Holman, B. W., O.B.E., A.R.S.M., A.I.M.M. Asst. Prof.
Habberjam, C., A I.M.M. Lectr.
Webb, A. H., M.I.M.M. Lectr.
Martin, Prof. C. J., M.B., D.Sc., F.R.S. Lectr. (Tropical Hygiene).
1 Demr.

Oil, v. Geol.

Optics, Technical [Prof.
Rankine, A. O., O.B.E., D.Sc.
Conrady, A. E., A.R.C.S. Prof. (O. Design).
Pollard, A. F. C., A.R.C.S., F.I.P., A.M.I.E.E. Prof. (O.E. (Mech.) and Instrument Design).
Martin, L. C., D.Sc., A.R.C.S., D.I.C. Lectr.
1 Demr.

Petrology, v. Geol.

Physics, v. also Astrophysics
Callendar, H. L., C.B.E., M.A. Camb., LL.D. McG., F.R.S. Prof.
Rankine, A. O. (v. Optics). Prof.
Forsyth, R. W., A.R.C.S. Asst. Prof.
Dingle, H., B.Sc., A.R.C.S. ,, ,,
Gregory, H. S., B.Sc., A.R.C.S. Asst. Prof.

Lectrs.:
Brinkworth, H., M.Sc., A.R.C.S.
Bell, Mary, B.Sc., A.R.C.S.
Green, S. E., A.R.C.S.
9 Demrs.

Refractory Materials and Silicates, v. Chemical Tech.

Woods and Fibres, v. Botany

Zoology, v. also Biol. [Prof.
MacBride, E. W., M.A. Camb., LL.D. McG., D.Sc., F.R.S.
Balfour-Browne, F., M.A. Camb. Prof. (Entomology).

GENERAL INFORMATION

Address—Imperial Institute Rd., S. Kensington, S.W.7.
Telegrams—Scientist, Southkens, London. Telephone—6444 Kensington.

Founded by Royal Charter in 1907 for the purpose of giving the highest specialized instruction and providing the fullest equipment for the most advanced training and research in various branches of Science, especially in its application to Industry, the Imperial College includes as integral parts the following Associated Colleges :

The Royal College of Science.
The Royal School of Mines.
The City and Guilds (Engineering) College.

The departments and (in brackets) sub-departments are : Aeronautics (Aerodynamics, Meteorology), Botany (Bio-Chemistry, Plant Physiology and Pathology, Technology of Woods and Fibres), Chemical Technology (Chemical Engineering, and Fuel and Refractory Materials), Chemistry (Inorganic, Organic, and Physical), Engineering—Civil and Surveying, Electrical, Mechanical, and Motive Power, Geology (Economic Mineralogy, Mining Geology, Technology of Oil), Mathematics and Mechanics, Metallurgy, Mining (Mining Geology, Mining Surveying), Technical Optics (Optical Design, Instrument Design), Physics (Astro-physics), Zoology (Entomology).

The total staff exceeds 200. For the purpose of internal degrees of the Univ. the College is a School of the University in Science and Engineering. The buildings occupy about 8 acres and cost with equipment over £1,000,000.

The courses of study are designed for students of University standard whose occupations in life will be concerned with the scientific aspects of industries.

LIBRARIES, ETC. The Library of the Science Museum is available for the use of Students, and each Dept. is provided with a special Library, RESEARCH LABORATORIES, and full facilities for advanced study.

ADMISSION. The conditions of admission are as under, but the College reserves power to admit in special cases candidates whose qualifications do not in every respect coincide with those prescribed, but whose previous training fits them to take full advantage of the course proposed ; the prescribed qualifications give no right to admission, but will be considered with others of which the candidate may give evidence. (i.) *R.C.S.* and *R.S.M.* A candidate for admission must be as a rule not less than 17 yrs. of age. For admission to 1st yr. Assoc. courses an Entrance examn. in Maths. and Mechanics, Chem. Physics, Engl., French or German or Spanish or Italian, and Geometrical or Freehand Drawing must be passed, unless equivalent examns. have been passed elsewhere. (The Matricn. examn. of the Univ. is considered equivalent provided the student has passed in " More Advanced Maths." and " Elem. Mechanics," and in the other subjects prescribed for the Entrance examn.) Candidates for admission to a 2nd yr. must pass the College Entrance examn. in more advanced Maths., Mechanics, Chem., and Physics, unless equivalent examns. have been passed elsewhere. For admission to a 3rd yr. candidates must have reached a standard correspondingly higher. (ii.) *City and Guilds.* A candidate desiring to enter for the 1st yr. of the Assoc'ship course must be at least 16 yrs. of age and must pass entrance examn. in Maths. and Mechanics, Geom. Drawing, Phys., or Chem., Engl., and French or German or Italian or Spanish, unless he has passed the Matricn. examn. of the Univ., taking certain specified subjects, including More Advanced Maths. For admission

to the 2nd yr. course candidates must take the easier and more advanced papers, Geometrical and Machine Drawing, and practical Chem. in the College examn., or they must have passed the Interm. B.Sc. (Eng.) in the Univ. in Maths., Pure and Applied, Heat, Electricity and Magnetism, Engineering, Drawing and Design, and Chemistry. Candidates for admission to advanced or research work in the *R.C.S.*, *R.S.M.*, or *C. and G.* are admitted on satisfying the Coll. authorities as to their previous training.

DIPLOMA AND OTHER COURSES. Associateship of each of the 3 associated Colls., 3 or 4 yrs.; specially arranged courses in Advanced Science or Technology, 1 or more yrs., leading to the Diploma of the Imperial Coll.; short courses dealing with special subjects for graduates or persons engaged in scientific industrial pursuits; occasional courses to suit individual needs.

FEES. Entrance, £2; Tuition, per session, for full-time Associateship or Post-Associateship courses of study, £62 : 10s. (including Union fees); for less than full-time courses, *pro rata*; for Research Work the fee is £22 : 10s. per session (including Union fees), but an additional charge may be made for expensive apparatus or chemicals.

SCHOLARSHIPS for post-grad. work: Beit Fellowship for Research, v. Appendix XXIV. (iv.); £300 Plimmer Fellowship in Pathology; £100 in Botany; and many others (v. *Calendar*).

AFFILIATION, ETC. The Univ. of Sheffield is associated with the Coll. for Advanced Studies in the Metallurgy of Iron and Steel. Students of Huddersfield Technical Coll. may be admitted, subject to certain conditions, without examn.

PUBLICATIONS. *Calendar*; *Annual Report*, with list of members pubd. by members of the Coll.

THE YEAR 1924–25

BENEFACTIONS, ETC. For the new Hostel; Sir Otto Beit, £5000; Treasury Grant, £4500; Goldsmiths', Mercers', and other City Companies, £1600; Anglo-Persian Oil Co., £150; Burmah Oil Co., £150; other contributions, mainly from Members of Staff, students, and old students of the College, £445.

NEW BUILDINGS AND EQUIPMENTS. A Hostel for 50 students is being erected adjoining the Students' Union Building, at a cost, including furniture, of £16,300.

UNIVERSITY OF LONDON. By arrangement with the Univ., students who have matriculated in the Univ. and who complete one of the recognized College Associateship Courses and pass the Examinations on the completion of each part of the Course, will become eligible for the degree of B.Sc., with honours.

RETIREMENT. Prof. F. J. Cheshire (Technical Optics).

DIPLOMAS granted—A.R.C.S., 87; A.R.S.M., 41; A.C.G.I., 99; D.I.C., 84. Total, including 12 women, 311.

STUDENTS. Total full-time, 939 (including women—24). Preparing for College Associateship—710, including 10 women—(Biol., 32; Chem., 133; Maths., 1; Optical Eng., 3; Physics, 35; Metall., 26; Mining, 60; Min. Geol., 7; Oil Tech., 28; Engineering, 385). Post-diploma and research—229, including 14 women—(Aeronautics, 13; Biol., 55; Chem., 61; Chem. Tech., 22; Maths., 5; Optics, 4; Physics, 17; Mining, 4; Metall., 6; Oil. Tech., 6; Engin., 36). Occasional—123. Also 39 research workers. Full-time students from abroad—India, 51; South Africa, 5; other parts of the Empire, 16; China, 6; Russia, 6; America, 6; other foreign countries, 37.

EAST LONDON COLLEGE

CHAIRMAN OF THE COLLEGE COUNCIL—E. DE QUINCEY QUINCEY.
PRINCIPAL—J. L. S. HATTON, M.A.
REGISTRAR—E. J. WIGNALL.

PROFESSORS, LECTURERS, ETC.

Aeronautical Engineering
Piercy, N. A. V., D.Sc. (Eng.) Lectr.

Botany [Prof.
Fritch, F. E., Ph.D. Mün., D.Sc.
Haines, F. M., B.Sc. Lectr.
Carter, Nellie, D.Sc. Birm. Lectr.

Chemistry
Partington, J. R., M.B.E., D.Sc. Manc. Prof.
Turner, E. E., M.A. Camb., D.Sc. Lectr.
Jones, D. C., M.Sc. Wales, Ph.D. Johns Hopkins Lectr.
Patterson, W. H., M.Sc. Manc. Lectr.
Bury, F. W., M.Sc. Manc. Lectr.
Roberts, E., M.Sc., Ph.D. Wales Lectr.

Classics
Earp, F. R., M.A. Camb. Prof.*
Mozley, J. H., M.A. Camb. Lectr.

Engineering, Civil and Mechanical, v. also Aero.
Lamb, E. H., D.S.C., M.Sc. Manc., A.M.I.C.E. Prof.
Higgins, A. L., M.Sc. Belf., A.M.I.C.E. Lectr. (Civil E.).
Wedgwood, G. A., M.Sc. Belf. Lectr. (Mech. E.).

Lectrs. and Demrs. :
Wells, G. J., A.M.I.C.E., M.I.M.E.
Brendel, F. C. L., B.Sc.
1 Demr., 2 Assts.

Engineering, Electrical [Prof.
MacGregor-Morris, J. T., M.I.E.E.
John, W. J., D.I.C., A.M.I.E.E. Lectr.
Castellain, A. P., B.Sc. Lectr.

English Lang. and Lit.
Nicoll, J. R. Allardyce, M.A. Glas. Prof.

Lectrs. :
Williams, O. T., M.A. Wales
Davis, B. E. C., M.A. Ox., M.A.
Dobrée, B., B.A. Camb.

French Lang. and Lit.
Dechamps, J., D.Phil., D. ès L. Liége *
Halket, Eliz. C., M.A. Lectr.
Rozclaar, L A., M A. Lectr.

Geography and Geology
Smith, H. G., B.Sc., A.R.C.S. Reader.
Tunstall, Bessie M., B.A. Lectr.

German Lang. and Lit.
Dunstan, A. C., Ph.D. König., B.A. Lectr.

History, Modern
Clarke, F., M.A. Ox. Prof.*
Sharp, Margaret, M.A., Ph.D. Manc., Lectr.

Mathematics, Pure and Applied
The Principal *
Le Beau, G. S., M.A. Ox. Prof., Depy. Hd. of Dept.

* Head of Department.

Churchill, W. F. S., M.A. Ox.
Asst. Prof. (Applied M.).
Cooper, F. T., B.Sc. Lectr.
Soal, S. G., M.A. Lectr.
Green, S. L., M.Sc. Lectr.

Physics

Lees, C. H., D.Sc. Manc., F.R.S. [Prof.
Ferguson, A., M.A. Wales, D.Sc. Lectr.
Calthrop, J. E., M.A. Camb , M.Sc. Lectr.
Andrews, J. P., B.Sc. Lectr.
Irons, E. J., B.Sc. Lectr.

Spanish

Barragán, J. V. Lectr.

Zoology

Mudge, G. P., A.R.C.S. Head of Dept.
Cunningham, J. T., M.A. Ox. Lectr.
1 Asst.

GENERAL INFORMATION

Address—Mile End Rd., E.1. Telephone—3384 East.

Established 1892. Governed by a Council which includes the Master and Clerk of the Drapers' Co., and representatives of the L.C.C., the Univ., and the Staff. A School of the Univ. in Arts, Science, and Engin. Students proposing to take the Medical course at the London Hospital are offered special facilities for carrying on their studies for the Prelim. Med. Examn. Special Research LABORATORIES in Physics, Chem., Elec. Engin. Degree courses in Arts, Science, Engin. (including Aeronautical Engin.), and Med. Students are likewise prepared for the Intermediate examns. in Agriculture and Pharmacy. There is also a School of Dramatic Study and Research. Fee per session, £22 : 2s. Hall of Residence for women at Whipps Cross ; residence and board from 30s. a week. *Calendar*, 1s. post free. *College Magazine*, Old Students' Association.

THE YEAR 1924–25. Students preparing for a first degree : full-time, 438 ; part-time, 38. Graduate students, 57. Degrees obtained, 118.

BIRKBECK COLLEGE

PRESIDENT OF THE COLLEGE—Rt. Hon. VISCOUNT HALDANE OF CLOAN, K.T., O.M., F.R.S.

CHAIRMAN OF THE GOVERNORS—Sir E. COOPER PERRY, M.D., M.A., F.R.C.P.

PRINCIPAL—GEORGE SENTER, D.Sc., Ph.D., F.I.C.

SECRETARY—G. F. TROUP HORNE, B.A.

LIBRARIAN—M. C. HILDYARD, B.A.

PROFESSORS, LECTURERS, ETC.

Botany

Gwynne-Vaughan, Dame Helen, D.B.E., LL.D. Glas., D.Sc., F.L.S. Prof.

Barnes, B. F., B.Sc. Lectr.

Special Lectrs. :

Ramsbottom, J., O.B.E., M.A. Camb., F.L.S.

Wilmott, A. J., B A. Camb.

Bolas, B.D., M.Sc.

Chemistry

The Principal, Ph.D. Leip., D.Sc., F.I.C. *

Barrow, F., M.Sc. Birm., Ph.D. Stras. Assoc. *

Sugden, S., D.Sc., A.R.C.S., A.I.C. Lectr.

Myddleton, W. W., D.Sc. Belf. Lectr.

Thorneycroft, F. J., B.Sc. Birm. Lectr.

1 Demr.

Classics and Ancient History

Wright, F. A., M.A. Camb. *

Marshall, F. H., M.A. Camb. Reader.

Economics

Schwartz, G. L., B.A., B.Sc. (Econ.) Lectr.

English Lang. and Lit.

Lobban, J. H., M.A. Aberd. *

Daunt, B. Marjorie Lectr. (E. Lang.).

Potter, S. M., B.A. Ox. Lectr.

French Lang. and Lit. [Prof.

Tanquerey, F. J., B. ès Sc. Rennes, D. ès L. Paris, Off. de l'A. Fr.

Stone, Louise W., M.A. Lectr.

Gould, Marjorie, B.A. Lectr.

Geography [Prof.

Unstead, J. F., M.A. Camb., D.Sc.

Savory, Gundred H., B.A. Lectr.

Taylor, Eva G. R., B.Sc. Lectr.

Orford, E. J., F.R.G.S. Lectr.

Geology

Davies, G. MacD., M.Sc., F.G.S. *

Spath, L. F., D.Sc., F.G.S. Lectr. (G. and Geog.).

German

Bithell, J., M.A. Manc. Reader *.

Carr, C., B.A. Manc. Lectr.

History [Reader *.

Jones, Arthur, M.A. Manc.

Penson, Lillian M., B.A., Ph.D. Lectr.

Italian

Crespi, A., D.Lett. Padua Lectr.

Law

Welford, A. W. Baker, M.A. Camb. *

(Jurispr., Com. L., Merc. L., Conflict of Laws).

* Head of Dept.

O'Malley, B. L. A., B.A. Camb.
Lectr. (Roman L., Hist. of English L.).
Richardson, J. B., M.A., LL.B. Camb.
Lectr. (Equity, Real Property, etc.).
Goitein, H., LL.B.
Lectr. (Const. and Crim L.).

Mathematics, Pure and Applied

Smart, E. H., M.A. Camb. *
Coates, C. V., M.A. Camb. Lectr.
Fox, C., M.A. Camb. Lectr.
Ball, A. E., B.A. Camb. Lectr.

Philosophy, Psychology, and Logic

Burns, C. Delisle, M.A. Camb., D.Lit. Lectr.

Physics [Prof.

Griffiths, A., D.Sc. Manc., A.R.C.S.
Simons, L., D.Sc., F.Inst.P. Reader.
Clack, B. W., D.Sc., Ph.D., F.Inst.P. Lectr.
Nettleton, H. R., D.Sc. Lectr.

Zoology [Reader *.

Jackson, H. G., M.Sc. Liv., F.Z.S.
Spaul, E. A., B.Sc., Ph.D., F.Z.S. Lectr.
Russell, Lilian, B.Sc. Sheff., M.Sc. Demr.

* Head of Dept.

GENERAL INFORMATION

Address—Breams Buildings, E.C.4. Telephone—2245 Holborn.

Founded 1823 by Dr. George Birkbeck "for the purpose of giving education to students in the principles of the arts they practise, and in the various branches of Science and useful knowledge." A School of the Univ. in Arts and Science for evening and part-time students for 5 yrs. from Oct. 1925. *Library*: 15,000 vols., including special Science Department. Complete *courses* for degrees in Arts and Science and also in Laws, and for the Academic Diploma in Geog. and for the Inst. of Chem. examns., and matricn. courses. *Fees*, including subs. to Students' Union: Arts and Laws, £7: 10s.; Science, £9. Postgrad. work, 3 gs. to 5 gs. *Playing Fields* (18 acres) at Greenford. *Publications*: *Calendar*, 1s.; *Annual Report*; *Lodestone* (Students, terminally).

THE YEAR 1924–25. Bequest by Aaron Sims, formerly a student of the College, about £9000 for prizes in German, French, Italian, Dutch, and Portuguese. Additional laboratory for Chemistry and extension of Dept. of Zoology. New chair of French. Law courses extended to cover LL.B. syllabus. *Students*: Internal, 679, others, 427; men, 664, women, 442. Degrees obtained: B.A., 29 (women—11); B.Sc., 26 (w.—4); higher, 10; LL.B., 1.

LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

CHAIRMAN OF COURT OF GOVERNORS—Rt. Hon. Sir ARTHUR STEEL-MAITLAND, Bart., M.P.

VICE-CHAIRMAN—Hon. Sir JOHN COCKBURN, K.C.M.G., M.D.

DIRECTOR—Sir WM. H. BEVERIDGE, K.C.B., M.A., B.C.L. (Ox.), LL.D.

SECRETARY—MRS. MAIR, M.A. LIBRARIAN—B. M. HEADICAR.

PROFESSORS, LECTURERS, ETC.

Accountancy and Business Methods, v. also Com.

Dicksee, L. R., M.Com. Birm., F.C.A. Cassel Prof.

de Paula, F. R. M., O.B.E., F.C.A. Reader.

Roland, S. W., F.C.A. (S) (Railway Accounting).

Anthropology, Social, v. also Ethnology

Malinowski, B., Ph.D. Cracow, D.Sc. Reader.

Banking and Currency, v. also Commerce

Gregory, T. E., D.Sc. (Econ.) Cassel Prof.

1 Asst.

Commerce and Industry, v. also Law, Logic, Transport

Sargent, A. J., M.A. Ox. (also Lectr. in Geog.) Prof.

Forrester, R. B., M.A. Edin., M.Com. Manc. Lectr.

Redford, A., M.A., Ph.D. Manc. Lectr.

Rowe, J. W. F., M.A. Camb., M.Sc. (Econ.) Lectr.

D'Eath, D. C., F.C.I.S. (S) (*Secretarial Practice*).

Economics, v. also Indian E. and Russia

The Director (Descriptive E. and Public Admn.). Lectr.

Cannan, E., M.A. Ox., LL.D. Glas. Prof. (Pol. Economy).

Dalton, Hugh, M.P., M.A. Camb., D.Sc. (Econ.) Reader.

2 Assts.

English

Reed, A. W., M.A., D.Lit. Reader (and at King's Coll.).

1 Asst.

Ethnology, v. also Anthropology

Seligman, C. G., M.D., F.R.C.P., F.R.S. Prof.

Joyce, T. A., O.B.E., M.A. Ox. (S).

Finance, v. Politics

French, v. Modern Languages

French History and Institutions

Vaucher, P., D. ès L. Paris Prof.

Geography, v. also Commerce

Jones, L. Rodwell, B.Sc., Ph.D. (also Commerce) Prof.

Ormsby, Hilda, B.Sc. (Econ.) Lectr.

3 Assts.

(S) = Special Lectr., not on the School Staff.

German, v. Modern Languages

History, Economic, v. also Politics

Knowles, Lilian, Litt.D. Dub., M.A., LL.M. Camb. Prof.
Hall, Hubert, Litt.D. Camb. Reader (Palæog. and E H.).
Tawney, R. H., B.A. Ox. Reader.
Power, Eileen E., M.A., D.Lit. Reader.
2 Assts.

Indian Economics

Slater, Gilbert, M.A. Camb., D.Sc. (Econ.) (S).

International Relations

Baker, P. J. Noel, M.A. Camb. Cassel Prof.

Law, v. p. 168.

Allemès, F., B. ès L., L. ès L. Avocat, (S) (Code Civil).
Ball, W. V., O.B.E., M.A. Camb. (BL). (S) (Railway L.).
Robson, W. A., B.Sc. (Econ.), Ph.D. (BL), (S) (Industrial L. and Local Govt.).
Parry, D. Hughes, B.A., LL B. Camb. and Wales, Barr.-at-Law Lectr. (English L.).
Bolland, W. C., M.A., LL.D. Camb. (S) (English L.)

Logic, Psychology, and Philosophy

Wolf, A., M.A. Camb., D.Lit. Prof. (Logic & Scientific Method).

Lectrs. on Industrial Psychology:

Burt, Prof. Cyril, D.Sc. (S).
Farmer, Eric, M.A. (S).
Miles, G. H., D.Sc. (S).
Myers, C. S., C.B.E., M.A., M.D., Sc.D. Camb., F.R.S. (S).
Smith, May, M.A. (S).

Modern Languages *

Earle, Edith Lectr. (French).
Haltenhoff, A. G. Lectr. (German).

Politics and Public Administration

Webb, Right Hon. Sidney, M.P., LL.B. Prof. (Pub. Admn. and History).
Laski, H. J., M.A. Ox. Reader.
Lees-Smith, H. B., M.P., M.A. Ox. Reader (Pub. Admn.).
Wallas, Graham, M.A. Ox., Litt.D. Manc., Emeritus Prof., Univ. London Lectr. (Pol. Science) (S).
3 Assts.

Russian Institutions and Economics

Meyendorff, A. Reader.

Shipping, v. Transport

Social Science and Administration

Lloyd, C. M., M.A. Ox., Barr.-at-Law Head of Dept.
Burns, C. Delisle, M.A. Camb., D.Lit. Lectr. (Social Philos.).
Cullis, Prof. Winifred C., D.Sc. (Physiology) (S).
3 Assts.

Sociology, v. also Anthropology

Hobhouse, L. T., M.A. Ox., D.Lit. Durh., LL.D. St. And. Martin-White Prof.
Westermarck, E. A., Ph.D. Helsing., LL.D. Aberd. Martin-White Prof.
Ginsberg, Morris, M.A., D.Lit. Reader.

Statistics

Bowley, A. L., Sc.D. Camb., F.B.A. Prof.
Rhodes, E. C., B.A. Camb., M.Sc. Reader.
2 Assts.

(S) = Special Lectr., not on the School Staff; (BL) = Barr.-at-Law.

* Preparatory for B.Sc. (Econ.): language courses for B.Com. are provided chiefly at King's and Univ. Colls.

Transport, v. also Acctcy. and Law		Abell, Sir Westcott, K.B.E., M.Eng., M.I.C.E., M.I.N.A. (Shipping)	(S).
Stephenson, W. Camb.	Tetley, M.A. Cassel Reader.	Burtt, P. 1 Asst.	(S).

(S) = Special Lectr., not on the School Staff.

GENERAL INFORMATION

Address—Houghton St., Aldwych, W.C.2.
Telegrams—" Poleconics, Estrand." Telephone 5671 Holborn.

Founded 1895. A School of the Univ. recognized in the Faculties of Economics and Political Science (including Commerce and Industry), of Laws, and of Arts (in certain subjects only).

Matriculated students are registered as Internal students of the Univ. with a view to the B.Sc. Econ , B.Com., LL.B., and B.A. (with Honours in Geog., Sociology, Anthrop., or History, or the Pass degree with Geog.), or to Higher degrees.

The lectures and classes at the School are open also to those who have not matriculated and do not wish to pursue a full University course—in particular to those engaged in banking, accounting, railway and other transport, commerce and industry, to civil servants and municipal officials, to teachers, and to those engaged in or qualifying for social work. To all these the School affords, by day or evening, the opportunity of specialized or advanced study on particular topics. The School is open on the same terms to men and to women, and classes and lectures are given both in the day and in the evening.

The School offers special facilities for post-graduate research, under the supervision of professors or otherwise. The *British Library of Political and Economic Science*, which includes the British Library of *Political Science*, the Fry Library of *International Law*, the Cobden Library of *International Commerce and Peace*, and the Schuster Library of *Comparative Legislation*, is open not only to those who are taking courses at the School, but, by permission of the Director, to any person desiring to utilize it for research or consultation. The Ratan Tata Foundation for research into social conditions is administered by the School, which maintains in connexion with it a Dept. of Social Science and Administration.

General Composition Fee for the session, Day, 21 gs., Evening, 14 gs. (including Students' Union). Playing fields at Malden are available for members of the Students' Union.

Research Studentships, £200, in addition to fees, are offered from time to time. There are entrance scholarships and prizes.

Publications: *Studies in Econ. and Pol. Sc.*; *Economica*, thrice annually, 2s. 6d.; *Bulletin of the British Library of Political and Economic Science*, quarterly, 2s. per annum; *Clare Market Review* (Students, once a term). *Bulletin* – with supplements—of the *London and Cambridge Economic Service* of Statistics and Memoranda, bearing on the current economic position, is maintained by the School, in co-operation with the Univ. of Cambridge and Harvard Univ. Subs. £6 p.a.

THE YEAR 1924–25. *New Buildings and Grounds*: A new wing containing the Cobden Library of International Commerce and Peace was opened. Power was taken by the L.C.C. to acquire adjoining houses. Athletic ground at Malden was purchased. *Other developments*: Recognition as a School of

the University for History and for Anthropology (as in 1922 for Geography and Sociology). Special intermediate examn. in Arts to be held jointly with King's College. "Diplomatic course" instituted for prospective diplomatic and consular servants of foreign powers. Office machinery exhibition room. Railway Information Bureau supported by all companies. Inter-collegiate day course in Laws furnished with reading-room and Schuster collection on Comparative Legislation. Agreement with university and secondary schools representatives for revision of curricula for Economics and Commerce degrees and Higher Schools examn. Provision for associating representatives of teaching staff more formally with administration. *Resignation*: Sir Halford Mackinder, apptd. Chairman of Imperial Econ. Conference; Hugh Dalton, M.P. (resigned readership in Commerce and appointed part-time reader in Economics); Drummond Smith; Margaret Hogg. *Deaths*: Mary E. Christie. *Students*: Total regular, 934 (highest recorded), including Army Class of 30. Preparing for first degree, full-time, 237 (including women—55); part-time, 340 (women—42); for higher degree, full-time, 79 (w.—14); part-time, 19 (w.—3); other regular, full-time, 242 (w.—127); part-time, 17 (w.—4); occasional, 1831 (w.—327). Graduate students, 366. Degrees obtained: B.A., 5 (w.—3); LL.B., 2; B.Com., 36 (w.—3); B.Sc. (Econ.), 68 (w.—19); M.Sc. (Econ.), 1; Ph.D. (Econ.), 7 (w.—1).

SOUTH-EASTERN AGRICULTURAL COLLEGE, WYE

CHAIRMAN OF GOVERNING BODY—Rt. Hon. LAURENCE HARDY, P.C., M.A., D.L.

PRINCIPAL—R. M. WILSON, B.Sc. (Agric.).

SECRETARY AND BURSAR—C. FERGUSSON.

TEACHING AND RESEARCH AND ADVISORY STAFF

Agriculture
The Principal.
6 Assts.

Agr. Engineering
Davies, C., T.D.A.

Agr. Law, Forestry, Book-keeping, Cost Accounting, Surveying, and Building Constn.
Haines, A. H., P.A.S.I.
2 Assts.

Agr. Zoology
Duffield, C. A. W.

Botany
Parkinson, S. T., B.Sc.
Pearl, R. T., B.Sc.

Chemistry
Harwood, S. D. F., M.A., F.I.C.
Scrivener, F. L. C., B.Sc. (Agric.).
Burgess, A. H., B.Sc. (Agric.).
Goodwin, W., M.Sc., Ph.D.

Economics
Wyllie, J., B.Sc. (Agric.), N.D.A., N.D.D.

Entomology
Theobald, F. V., M.A. Camb.

Fruit-growing and Market Gardening
Miskin, W.
1 Asst.

Geology and Zoology
Brade-Birks, S. G., D.Sc.

Ironwork, Farriery, and Woodwork
3 Instrs.

Mycology
Professor Salmon, E. S., F.L.S.
Ware, W. M., M.Sc.

Poultry
Rhodes, F. W., D.S.O.
Goode, C. W.

Veterinary Science and Bacteriology
Cave, T. W., F.R.C.V.S.
1 Asst.

GENERAL INFORMATION

Address—Wye, Kent. Telephone—1 Wye.

Founded 1894. A School of the Univ. in Science (Agric.).

LIBRARY, 3500 vols. LABORATORIES: Chem. Research, Biol. (35 places), Bact., Entom., Vet. Farm, 460 acres. Forestry demonstration plantation.

COURSES qualify for B.Sc. (Agric.), B.Sc. (Hort.), C.D.A. (Wye) (3 yrs.), C.D.H. (Wye) (3 yrs.), N.D.A., P.A.S.I., and are suitable preparation for farming at home or abroad, research work, or such posts as lecturer in agric., agric. organizer and administrator, estate manager. A large percentage of past students of the College hold such posts at present. Extension Lectures, summer courses for Elem. School Teachers, short courses for farmers' sons. FEES, inclusive for board, lodging, and tuition: British Subjects, £150 p.a.; others, £180 p.a. Tuition only—British subjects, £85; others, £115 p.a. Reduced fees for ratepayers of Kent, Surrey, and W. Sussex. Number of Students (1924–25), 161; internal, 31; others, 130; degrees obtained, 7.

LONDON DAY TRAINING COLLEGE

CHAIRMAN OF COUNCIL—ERNEST BARKER, Esq., M.A., D.Litt., LL.D.

STAFF

Nunn, T. Percy, M.A., D.Sc.
Principal and Prof. of Education.
Punnett, Margaret, B.A.
Vice-Principal.
Burt, C. L., M.A. Ox., D.Sc.
Part-time Prof. of Educn.
Lecturers and Tutors :
Bell, J. J., M.A. Ox. and Liv.
Fairgrieve, J., M.A. Ox., B.A.
von Wyss, Clotilde, F.L.S.
Calthrop, Miss M. G., Mod. Lang. Tripos Part-time Lectr.
4 Instrs. in Art and Handwork, 1 in Music, 2 in Physical Training. 9 Supervisors of School Practice.

GENERAL INFORMATION

Address—Southampton Row, W.C.1.

Founded 1902. The Chancellor and Vice-Chancellor of the Univ. and Chairmen of the L.C.C. and London Educn. Committee are *ex-officio* members of the College Council. A School of the Univ. in Pedagogy.

Schools under the L.C.C. and others are used for practical instruction, and 3 Demonstration Schools are attached to the College.

Students are trained under the Regulations for the Training of Teachers (H.M. Stationery Office, Kingsway, W.C.2) for Elem. and Secondary Schools. Undergraduates can take a 4 yrs.' course so as to combine B.A., B.Sc., or B.Sc.Econ. courses (taken at other Colls.) with Professional training. One who has already graduated may devote himself continuously for a year to Theory, etc., of Educn. and obtain the Univ. diploma. Courses for the M.A. and Ph.D. Degrees in Educn. are also provided. *Fees*: London students—*nil*; others—for a year spent entirely at the Training College for a professional course, £40. Number of full-time students (1924–25), 575, including 343 women; preparing for a first degree, 389 (women—210); graduate students, 165 (w.—108); four-year students, 535 (w.—316); one-year, 28 (w.—22); private, 12 (w.—5). Preparing for higher degrees, 18 (w.—7).

SCHOOL OF ORIENTAL STUDIES

PATRON—H.M. THE KING.

VISITOR—THE PRESIDENT OF THE BOARD OF EDUCATION.

CHAIRMAN—Sir HARRY L. STEPHEN.

DIRECTOR—Sir E. DENISON ROSS, C.I.E., Ph.D.

DEAN—C. O. BLAGDEN, M.A., D.Litt.

SECRETARY—Miss C. L. CLEGG.

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Amharic and Ethiopic

Athill, Major L. F. I. Lectr.* (Amh.).
Weld, H., B.Litt. Ox. Lectr.*
Harden, Rev. J. M., M.A., D.D., LL.D. Lectr.* (Eth.).
Hirschfeld, H., Ph.D. Lectr.* (Eth.).

Arabic

Arnold, Sir Thos. W., C.I.E., Litt.D., M.A. Camb. Prof. (Classical A.).
Iles, G. E., M.A., O.B.E. (Sudanese) Lectr.
Kader, Sheikh H. Abd el Lectr. (Egyptian A.).
Sefi, A. Lectr. (Syrian & Class. A.).
Gibb, H. A. R., M.A. Lectr. (Classical A.).
Fulton, A. S., M.A. Lectr.* (Classical A.).
Dojaily, Sheikh Kadhim (Mesopotamian A.) Lectr.

Armenian

Topalian, S. Lectr.

Assamese and Khasi [Lectr.*

Gurdon, Lt.-Col. P. R. T., C.S.I.

Bengali

Page, W. S., O.B.E., B.A., B.D. St. And. Reader.

Burmese

Hertz, W. A., C.S.I. Lectr.

Chinese

Bruce, J. P., M.A., D.Lit. Prof.
Edwards, E. Dora, M.A. Lectr. (Mandarin).
Shu, C. C. Lectr. (Mandarin).
Hopkins, L. C., I.S.O. Lectr.* (C. Palæog.).
Steele, J., M.A., D.Lit. Lectr.* (Amoy & Swatow).
Waley, A. Lectr.* (C. Poetry).

Gujarati

Doderet, W., M.A. Camb., I.C.S. (retd.) Lectr.

Hausa

Gill, J. W., O.B.E. Lectr.

Hebrew, Modern

Wartski, I., B.A. Lectr.

Hindostani

Bailey, T. G., M.A., B.D., D.Lit. Edin. Reader (Urdu & H.).
Leeson, G. E. Lectr. (Urdu & Hindi).
Palmer, T. G. F. Lectr.

History and Culture of British Dominions in Asia, especially India, v. also Sansk.

Dodwell, H. H., M.A. Ox. Prof.

* On panel of additional lectrs., not on regular staff.

Japanese
Isemonger, Commdr. N.E., R.N. (retd.) Lectr.
Yoshitake, S. Lectr.
Mere, G. Lectr.*

Kanarese
Edwardes, S. M., C.S.I., C.V.O. Lectr.*

Law, Indian [Lectr.
Sabonadière, A., I.C.S. (retd.)

Law, Ottoman
Ostrorog, Count Leon Hon. Lectr.

Malay
Blagden, C. O., M.A. Ox., D.Litt. Rangoon Reader.

Marathi
Kanhere, S. G. Lectr.

Pali
Davids, Mrs. C. A. R., D.Litt., M.A. Lectr.

Persian
Dārāb, G. H., Khan Lectr.
Ross, Sir E. D., C.I.E., Ph.D. Stras. Prof.

Wilson, C. E., Ph.D. Lectr.
Phillott, Lt.-Col. D. C. Lectr.*

Polynesian, Melanesian, Micronesian, and Papuan
Ray, S. H., M.A. Lectr.*

Sanskrit
Turner, R. L., M.A., M.C. Prof.
Barnett, L.D., M.A., Litt.D. Manc., M.A. Camb. Lectr. (S. & Anc. Indian History).
Allan, J., M.A. Lectr.* (Oriental Palaeog.).

Shan
Inman, Capt. H. J. Lectr.*

Siamese [Lectr.*
Cartwright, B. O., B.A. Camb.

Swahili and Bantu
Werner, Alice Prof.
Werner, Mary Lectr.

Tamil and Telugu
Wickremasinghe, M. de Z., M.A. Ox. Reader.

Turkish
Topalian, S. Lectr.
Ali Riza Bey Lectr.

* On panel of additional lectrs., not on regular staff.

GENERAL INFORMATION

Address—Finsbury Circus, E.C.2.

Established by Royal Charter, 1916. A School of the Univ. in Arts. *Library*, 100,000 vols. *Fees*: 3½ to 20 gs. per session; I.C.S. probationers, 30 gs. *Scholarships* (Gilchrist), 2 of £50 in Turkish and Chinese. Teaching provided in more than 45 languages and in the history, religions, and customs of Oriental and African countries. Special facilities for research work. *Number of Students* (1924–25), part-time, preparing for a first degree, 27 (including women—5); part-time graduates, 12 (women—1); full-time graduates, 15; occasional students, 352 (w.—108); taking pre-matriculation courses, 52 (w.—15). Degrees obtained: M.A., 3; Ph.D., 2.

BEDFORD COLLEGE FOR WOMEN

VISITOR—Rt. Hon. VISCOUNT HALDANE OF CLOAN, O M., K.T., F.R.S.

CHAIRMAN OF COUNCIL—Sir WILMOT HERRINGHAM, K.C.M.G., C.B., M.D., F.R.C.P.

PRINCIPAL—Miss M. J. TUKE, M.A. Dub.

RESIDENT TUTOR—Miss L. C. KEMPSON, M.A. Dub.

SECRETARY—Miss O. E. MONKHOUSE, M.B.E., B.A.

REGISTRAR—Miss E. M. E. HAYDON, M.A.

LIBRARIAN—Miss J. A. PATERSON.

PROFESSORS, LECTURERS, ETC.

Botany [Prof.
Jones, W. Neilson, M.A. Camb.
Halket, Miss A. C., B.Sc. Lectr.
Garside, S., M.Sc. Manc. Lectr.

Chemistry, Inorganic and Physical
Spencer, J. F., Ph.D. Bres , D.Sc. Liv., F.I.C.
Reader (Physical C.).
Crewdson, Miss M. S., M.Sc. Lectr.
2 Demrs.

Chemistry, Organic
Crompton, Holland, F.C.S. Reader.
2 Demrs.

Classics [Reader (Greek).
MacGregor, J. M., M.A. Ox.
Tarrant, Miss D., M.A. Lectr.
Williamson, Harold, M.A. Ox.
Prof. (Latin).
FitzGerald, Miss K., B.A. N.U.I.
Lectr.
Furness, Miss S. M. M. Lectr.
1 Asst. (part-time).

Dutch
Geyl, P., Litt.D. Leyden Prof.
Haantjes, J. Reader.

English Language and Mediæval Lit.
Thomas, P. G., M.A. Camb., Litt.D. Liv. Reader.
1 Asst. (part-time).

English Literature
Spurgeon, Miss C., Litt.D. Mich., D. de l'U. Paris Prof.
Routh, H. V., M.A. Camb. Reader.
Covernton, Miss A. B. Lectr.
Ellis-Fermor, Miss U. M., M.A., B.Litt. Ox. Lectr.
1 Asst. (part-time).

French Language and Mediæval Lit. [Sr. Lectr.
Johnson, Miss F. C. M A.
Terry, Mrs., M.A. Lectr.

French Literature
Eccles, F. Y., M.A. Ox. Prof.
The Principal Lectr.
Legros, René P., M.A. Edin. and Ox. Lectr.
Mackie, Miss M. D. Part-time ,,

Geography
Hosgood, Miss B., B.A. Reader.
Gilbert, E. W., B.A. Ox. Jr. Lectr.

Geology [Reader.
Hawkes, L., D.Sc. Durh., F.G.S.
2 Demrs. (1 part-time).

German
Robertson, J. G., B.Sc., M.A. Glas., Ph.D. Leip. Prof.
Massey, Miss I. M., Ph.D. Marb. Reader.
Haltenhoff, A. G. (part-time) Lectr.

History, Ancient [Reader
Cary, M., M.A., D.Litt. Ox.

History, Modern [Barclay Lectr.
Allen, J. W., M.A. Ox.
Haward, Miss W. I. Lectr.
Tooley, Miss M. J., M.A. Jr. Lectr.

Italian
Dobelli, S'rina E. B. Sr. Lectr.
1 Asst.

Mathematics [Prof.
Hilton, Harold, M.A., D.Sc. Ox.
Marshall, J., M.A., D.Sc. St. And. Reader.
Fowler, Mrs., M.A. Lectr.
Honeybourne, Miss D. M., B.A. Part-time Lectr.

Philosophy
Edgell, Miss B., D.Litt. Wales, Ph.D. Würz. Reader (Psych.).
Hazlitt, Miss V. H., M.A. Lectr.
Stebbing, Miss L. S., M.A. Lectr.
2 Assts. (part-time).

Physics
Wilson, W., Ph.D. Leip., D.Sc., F.R.S. Prof.
Saltmarsh, Miss M. O., B.A. Dub., Ph.D. Lectr.
2 Demrs.

Physiology
Edkins, J. S., M.A., M.B., Sc.D. Camb Reader.
Edkins, Mrs., M.Sc. Lectr.
Murray, Miss M. M. A., B.Sc. Jr. Lectr. (Biol. Chem.).

Social Studies and Economics
Reid, Mrs. Director.
Williams, Mrs., B.A. Vict. Lectr.
4 Visiting Lecturers

Zoology
Boulenger, C. L., M.A. Camb., D.Sc. Birm., F.Z.S. Prof.
Hett, Miss M. L., B.Sc. Jr. Lectr.
1 Demr.

GENERAL INFORMATION

Address—Inner Circle, Regent's Park, N.W.1.
Telephone—Langham 1420.

Founded 1849. A School of the Univ. in Arts and Science. Tate LIBRARY and Wernher Reading-Room contain 35,000 volumes. Special facilities for Research work in the LABORATORIES (Bact., Bot., Chem., Geol., Physics, Physiol., Psych., and Zool.).

Minimum age for admission, 17. Students are prepared for all examns. of the Univ. of London in Arts and Science. In Medicine the College is recognized by the Univ. for purposes of the First M.B., and in Chem. and Physiol. for the Second M.B. Examn.

RESIDENTIAL accommodation for 94 students in the Coll. and 108 at hostels. FEES (Inclusive Sessional), for tuition: Interm. Arts—42 gs.; B.A.—31 to 46½ gs.; M.A.—8½ to 15 gs; Interm. Science and B.Sc. Pass—53 gs.; B.Sc. Hons.—38 to 53 gs.; M.Sc. and Ph.D.—15 to 21 gs. Residence with board—76 to 100 gs. Union Society—15s.; Athletic Union—25s.

SCHOLARSHIPS for graduates: One (Lady Huggins) in Sociology, awarded from time to time; one (Amy Lady Tate) for research in Arts or Science, £125 p.a. for 2 yrs.; "F.M.W." Medical, £50; Gilchrist Training, £30 for 1 yr.; Notcutt Travelling Studentship, £200 for session 1927-28.

PUBLICATIONS: *Calendar*, post free, 2s. 6d.; B.C. *Magazine* (Students).

THE YEAR 1924-25. *Benefactions*: £500 for prizes and scholarships, including Miss Schryver's bequest, £100, for annual prize in Eng. Lit. *New Buildings*: Sargant lab. for Plant Physiology (£1700). *Other Developments*: Junior lectureship in Biological Chem.; provision of courses for Interm.

B.Sc. in Agr. and Horticulture and for degree in Sociology (inter-collegiate scheme). *Resignations*: Miss P. V. McKie, apptd. research fellow, L.M. Hall, Oxford; Miss D. R. Crofts, apptd. Asst. Lectr. King's Coll.; Miss Knaggs, apptd. fellow, Girton Coll., Cambridge; Miss Butterworth and Miss Fellows, to posts in schools in Wales and Quebec. *Visitors from abroad who lectured*: Gaston Rageot (Paris), Prof. L. Lévy-Bruhl (Paris), Prof. P. Laumonier (Bordeaux). *Students*: Full-time, total, 562; part-time, 22; occasional, 74. Preparing for first degree, 480 (7 part-time); graduate, 30 (15 part-time). *Degrees obtained*: B.A., 83; B.Sc., 51; M.A., 3; M.Sc., 2; Ph.D., 2; D.Sc. 1.

ROYAL HOLLOWAY COLLEGE FOR WOMEN

CHAIRMAN OF THE GOVERNORS—The Right Hon. BARON ASKWITH, K.C.B., D.C.L.

PRINCIPAL—Miss E. C. HIGGINS, B.A.

SECRETARY TO THE GOVERNORS—Miss U. R. DOLLING.

PRINCIPAL'S ASSISTANT AND LIBRARIAN—Miss E. E. LOOKER, B.A.

PROFESSORS, LECTURERS, ETC.

Botany

Blackwell, Miss E. M., M.Sc. Liv. Sr. Lectr.
Light, Miss K. E., B.Sc. Asst. Lectr. & Demr.

Chemistry

Moore, T. S., M.A. Ox. Prof.
Boyle, Mary, D.Sc. Lectr. & Demr.
Shepherd, Florence, B.Sc. Demr. & Asst. Lectr.

Classics

Sleeman, J. H., M.A. Prof.
Taylor, Margaret E. J., M.A. Dub. Sr. Lectr.
Barratt, C., B.A. Ox. Asst. Lectr.

English

Block, Katharine S., M.A. Dub. Sr. Lectr.
Willcock, Gladys D., M.A. Lectr.
Robertson, Miss A. J., M.A., St. And. Asst. Lectr.

French [Sr. Lectr.

Honey, Margaret E. D., M.A.
McWilliam, Miss N., M.A. Edin. Lectr.
Scott, E. M., M.A. Asst. Lectr.
Rumault, Mlle. M. L. (Conversation) Assistante.

German

Delp, Wilhelmina E., Doct. de l'Univ. Paris Sr. Lectr.
Richey, Margaret F., M.A. Asst. Lectr.

History [Prof.

Johnstone, Hilda, M.A. Manc.
Powell, Miss I. G., M.A. Lectr.
Crichton, V. M. S., B.A. Ox. Asst. Lectr.

Mathematics [Prof.

Baker, B. B., D.Sc. Edin., M.A.
Rowell, Ethel M. Sr. Lectr.
Pick, Marion, M.A. Lectr.
The Principal.

Physics

Horton, F., Sc.D. Camb., M.Sc. Birm., D.Sc., F.R.S. Prof.
Davies, Ann C., D.Sc. Lectr. & Demr.
Andrewes, Ursula, M.Sc., Ph.D. Asst. Demr.

Art

Drawing and Painting

Carey, C. W. Teacher.

Music [Lectr. & Director.

Barker, Miss S. M.
4 Visiting Teachers.

GENERAL INFORMATION

Address—Englefield Green, Surrey. Telephone—114 Egham.

Opened in 1886. 19 miles from London. A School of the Univ. in Arts and Science. LIBRARY, 17,000 vols. LABORATORIES: Bot., Chem., Physics. Botanic Gardens—area of grounds, 95 acres. Residential accommodation for 196. Courses for Bachelorship and Higher degrees in Arts and Science. Inclusive FEES: £135 a yr. Post-graduate studentships, 3 or 4 of £40 each, open to students of the Coll. only. PUBLICATIONS: *Calendar*, 2s. post free; R.H.C. *Letter* (Students' Mag.).

STUDENTS (1924–25), 197; degrees obtained: B.A., 43; B.Sc., 20; M.Sc., 1; Ph.D., 1.

WESTFIELD COLLEGE, HAMPSTEAD

CHAIRMAN OF COUNCIL—The Rt. Hon. Sir THOMAS INSKIP, C.B.E., K.C., M.P.

PRINCIPAL—Miss E. C. LODGE, M.A. Ox., F.R.Hist.S.

LECTURERS

Botany [Reader.
Delf, Miss E. M., D.Sc., F.L.S.
Fry, Miss E. J., M.Sc. Wales

Classics
Parker, Miss C. E., M.A. Ox.
Glover, Miss M. R., B.A. Ox.
Botting, C. G., M.A. Camb. (part-time).
Norris, J. W. Coke, M.A. Ox. (part-time).

English Lang. and Lit.
Warren, Miss K. M. Reader.
Ashdown, Miss M., M.A. Camb.

French
Turquet, Mme., M.A., D.Lit. Reader.
Crosland, Mrs., M.A. (part-time).

History
Skeel, Caroline A. J., D.Lit., F.R.H.S. Prof.
Martin, Miss E. C., M.A.
The Principal.

Mathematics, Pure and Applied
Whitby, Miss L. J., B.A.
Palmer, Mrs., M.A. (part-time).

GENERAL INFORMATION

Address—Kidderpore Avenue, Finchley Rd., N.W.3.
Telephone—734 Hampstead.

Founded in 1882 by Miss Dudin Brown for the higher education of women. The college is undenominational, but the Principal is required to be a member of the Church of England. Situated near the south-west corner of Hampstead Heath; has residential accommodation for 87 students.

A School of the University in Arts.

Students are not admitted under the age of 18, and are required to pass an Entrance examn. Approved courses (Hons. and Pass) in the Faculty of Science in Bot. and Maths. are provided, as well as in Arts. Research Studentships are from time to time offered to graduates of this Univ. and of other Univs. Two rooms are set aside for Botanical Research. *Fees*: For tuition from 38 to 53 gs., residence £90 per session. There is an Old Students' Assocn. *Publications*: Hermes (Students' Mag.).

THE YEAR 1924–25. *Benefactions*: Old Students Assocn. Scholarships, £75 and £45 each for 3 yrs. *New Posts*: Prof. (formerly Reader) of History. *Resignation*: Miss V. M. Grubb, to take up a post in a school in China, succeeded by Miss E. J. Fry from Aberystwyth. *Students*: Full-time, preparing for first degree, 113; graduates, 8. *Degrees obtained*: B.A., 24; B.Sc., 6; M.A., 2.

THEOLOGICAL SCHOOLS OF THE UNIVERSITY

RECOGNIZED TEACHERS

In the following list the names of the Theological Schools are indicated by symbols thus :

HACKNEY AND NEW COLLEGE, HAMPSTEAD (N).
REGENT'S PARK COLLEGE (R).
KING'S COLLEGE THEOLOGICAL DEPT. (KT).
WESLEYAN COLLEGE, RICHMOND (WR).
ST. JOHN'S HALL, HIGHBURY (J)

Philosophy, v. Theology

Theology

Andrews, H. T., B.A. Ox., D.D. Aberd. (N.).
Barber, W. T. A., M.A. Camb., D.D. Dub. (WR.).
Barry, F. R., D.S.O. (KT.).
Box, G. H. (KT.).
Davies, W. A., M.A. Ox. and Wales, B.D. (N.).
Dearmer, P., D.D. Ox. (KT.).
Garvie, A. E., M.A. Glas. and Ox., D.D. Glas. (N.).
Gore, Rt. Rev. C., D.D., D.C.L. Ox., D.D. Edin. and Durh., LL.D.Camb. and Birm. (KT.).
Green, S. W., M.A. (also recognized in *Philos.*) (R.).
Hanson, H., M.A. Ox., B.D. (KT.).
Jenkins, C., M.A. Ox., F.S.A. (KT.).
Matthews, W. R., M.A., D.D. (KT.).
Relton, H. M., D.D. (KT.).
Robinson, H. W., M.A. Ox. and Edin. (R.).
Rogers, C. F., M.A. Ox. (KT.).
Scullard, H. H., M.A. Camb., M.A., D.D. (N.).
Smith, C. R., B.A., D.D. (WR.).
Smith, F. H., B.D. (KT.).
Smith, H., M.A. Camb. (J.).
Titterton, C. H., M.A., B.D. Edin. (J.).
Waterhouse, E. S., M.A., D.D. (WR.).

GENERAL INFORMATION

HACKNEY AND NEW COLLEGE, HAMPSTEAD * (Congregational), Finchley Road, N.W.3. Principal—A. E. Garvie, M.A., D.D. Secretaries—Rev. H. Staines, M.A., B.D., and Rev. T. R. Grantham.

New College, founded in 1696 and reconstituted in 1850, and Hackney College, founded in 1803, were merged into one institution in 1924. *Library*, 75,000 vols. Sessional fee, 6 gs. for each class. "Internal" students - -24.

REGENT'S PARK COLLEGE * (Baptist), Regent's Park, N.W.8. Principal—Rev. H. W. Robinson, M.A. Secy.—Rev. C. M. Hardy, B.A.

Founded 1810. Students for an Arts degree attend classes at Univ. Coll. *Fees*: 2½ gs. each class per term. "Internal" students—5.

* These two co-operate, joint classes being held under a common staff of teachers.

KING'S COLLEGE, THEOLOGICAL DEPARTMENT (Church of England), Strand, W.C.2. Telephone—207 and 208 Gerrard. Dean—W. R. Matthews, M.A., D D. Secy.—S. T. Shovelton, M.A.

Founded 1829 (v. *supra*, King's College). Complete courses for all Theol. degrees. Day and Evg. Classes. *Fees*: for tuition, undergraduate courses, £32 per session; evening classes, 5 gs. per term. *Hostel* for students: fee for residence, £22 per term. "Internal" students—49.

WESLEYAN COLLEGE, RICHMOND, Surrey. Principal—W. T. A. Barber, M.A., D.D. Secy. of Committee—Rev. L. F. Church, B.A.

Opened 1843. All students are accepted candidates for Ministry of Wesleyan Methodist Church. Residential accommodation for 60. "Internal" students—9.

ST. JOHN'S HALL, HIGHBURY, London, N.5 (Church of England). Principal—A. W. Greenup, M.A., D.D., Litt.D. Hon. Secy. of Council—Rev. T. J. Pulvertaft, M.A.

Founded and endowed 1863 by Dr. A. Peache, Chancellor of the Western Univ. of Canada. Courses for L.Th. Durham as well as for B.D. of London. *Fees*: Entrance, 2 gs.; board and tuition, £93. Residential accommodation for 51 students. "Internal" students—2.

RECOGNIZED TEACHERS

Note.—In the following list the names of the Medical Schools are indicated by symbols thus :

ROYAL ARMY MED. COLLEGE (AM).
ST. BART.'S HOSP. MED. COLL. (B).
BETHLEM ROYAL HOSPL. (Bm).
CHARING CROSS HOSPL. MED. SCH. (C).
ROYAL DENTAL HOSPL. AND LOND. SCH. OF DENT. SURG. (D).
GUY'S HOSPL. MED. SCH. (G).
LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE (H).
KING'S COLL. HOSPL. MED. SCH. (KM).
LONDON HOSPL. MED. COLL. (L).
LISTER INSTITUTE (LI).
LONDON (R.F.H.) SCH. OF MED. FOR WOMEN (LW).
MIDDLESEX HOSPL. MED. SCH. (M).
MAUDSLEY HOSPL. (My.).
NAVAL MED. SCH., GREENWICH (NM).
SCH. OF PHARMACY (P)
ST. GEORGE'S HOSPL. MED. SCH. (SG).
ST. MARY'S HOSPL. MED. SCH. (SM).
ST THOMAS'S HOSPL. MED. SCH. (T).
UNIV. COLL. HOSPL. MED. SCH. (UM).
WESTMINSTER HOSPL. MED. SCH. (W).

and names of certain Hospitals (v. p. 174) having recognized teachers thus :

BROMPTON HOSPL. FOR CONSUMPTION (24).
HOSPL. FOR SICK CHILDREN (25).
NATIONAL HOSPL. FOR PARALYSED AND EPILEPTIC (26).
ROYAL LONDON OPHTHALMIC HOSPL. (27).

Anæsthetics

Boyle, H. E. G., M.R.C.S., L.R.C.P. (B.).
Braine, C. C., F.R.C.S. (C.).
Chaldecott, J. H., L.R.C.P. (SM.).
Charles, H., M.R.C.S., L.R.C.P. (M.).
Gandy, E. W, O.B.E., B.A. Camb., M.R.C.S., L.R.C.P. (W.).
Gilliatt, Mrs., M.B., B.S. (LW.).
Hughes, C. H. M., M.B., B.S. (KM.).
Mennell, Z., M.B. (T.).
Probyn-Williams, R. J., M.D. Durh. (L.).
Shipway, F. E., M.A., M.D., B.Ch. Camb. (G.).
Shirley, H. J., C.M.G., M.D., F.R.C.S. (UM.).

Anatomy [Reader (B.).

Clark, W. E. Le G., F.R.C.S.
Frazer, J. E. S., F.R.C.S. Prof. (SM.).
Hume, J. B., M.B., B.S. (B.).
Johnston, T. B., M.B., Ch.B. Edin. Prof. (G.).
Keene, Mrs. M. F. L., M.B., B.S., Prof. (LW.).
Mitchiner, P. H., M.D., M.S., F.R.C.S. (T.).
Parsons, F. G., F.R.C.S. Prof. (T.).
Shore, L. R., M.A., M.B., B.Ch. Camb. (B.).

(B), (C), etc., (23), (24), etc., v. *Note* above.

Wright, W., D.Sc. Edr., M.B., Ch.B. Manc., F.R.C.S. Prof. (L.).
Yeates, T., M.B., C.M. Edin., B.Hy., D.P.H. Durh. Prof. (M.).

Anatomy, Morbid
Nicholson, G. W. de P., M.A., M.D. Reader, Morb. *Histol.* (G.).
Spilsbury, Sir Bernard H., M.A., B.M., B.Ch. Ox. (B.).
Turnbull, H. M., M.A., B.Ch., D.M. Ox. Prof. (L.)
Urquhart, A. L (T.).
Woods, W. W., M.R.C.S., L.R.C.P. (Morbid *Histol.*) (L.).

Bacteriology, v. also Path.
Bamforth, J., M.D. (T.).
Bulloch, W., M.D., C.M., LL.D. Aberd., F.R.S. (recogd. in Path.) Goldsmiths' Prof. (L.).
Eyre, J. W. H., M.D., M.S. Durh., D.P.H. Camb. Prof. (G.).
Fleming, A., M.B., F.R.C.S. (SM.).
Freeman, J., M.A., D M., B Ch. Ox. (SM.).
Goadby, Sir Kenneth W., K.B.E., L.R.C.P., M.R.C.S., L.D.S., D.P.H. Camb. (UM.).
Hunt, E. L., D.P.H. Camb., M.B., B.S. (also in Path.) (SG.).
Ledingham, J. C. G., C.M.G., M.A., M.B., Ch.B., D.Sc. Aberd., F.R.S. Prof. (LI.).
Petrie, G. F., M.D., Ch.B. Aberd. (LI.).
Wright, H. D., B.A. Tasmania, M.B., Ch.B. Edin. (UM.).

Bio-Chemistry, v. also Chem. Path.
Dodds, E. C., Ph.D., M.B., B.S. Prof. (M.).
Harden, A., D.Sc. Manc., Ph.D. Erl., F.R.S. Prof. (LI.).
McLean, I. S., D.Sc. (LI.).
Robison, R., Ph.D. Leip., D.Sc. (LI.).
Ryffel, J. H., M.A., B.Ch Camb., B Sc., F.I.C. (recogd. in Forensic Med.) Reader (G.).

Biology
Cunnington, W. A., M.D. (B.).
Evans, T. J., M.A. Ox. (G., 9).
Leigh-Sharpe, W. H., B.Sc. (SM.).
Mudge, G. P., A.R.C.S. (L., LW.).
Rushton, W., A R.C.S. (T.).
Woodger, J. H., B.Sc. Reader (M.).

Botany
Wallis, T. E., B.Sc., F.I.C. (P.).

Chemistry
Candy, H. C. H., B.A., B.Sc., F.I.C. (L.).
Corfield, C. E., B.Sc. (P.).
Gibson, C. S., O.B.E., M.A. Ox. and Camb., B.Sc. Ox., M.Sc. Manc., F.I.C. Prof. (G.).
Hurtley, W. H., D.Sc. Reader (B.).
Plimmer, R. H. A., D.Sc. Prof. (T.).
Tuck, W. B., D.Sc. Prof. (M.).
Widdows, Sybil T., B.Sc., F.I.C. (LW.).

Chemistry, Pathological, v. also Bio-Chem.
de Wesselow, O. L. V., M.B., B.Ch. (T.).
Wallis, R. L. M., M.A., M.D. Camb. (B.).
Willcox, Sir Wm. H., K.C.I.E., C.B., C.M.G., M.D., B.Sc., F.R.C.P., F.I.C., F C.S., D.P.H. (also in Med. and For. Med.) (SM.).

Chemistry, Physiological
Gardner, J. A., M.A. Ox., F.I.C. Reader (LW., SG.).

Dental Science, v. *infra*

Dermatology [(B.).
Adamson, H. G., M.D., F.R.C.P.
Barber, H. W., B.Ch., M.B., M.A. Camb., F.R.C.P. (G.).

(B), (C), etc., (23), (24), etc., v. *Note* on p. 154.

Davis, H. D., B.A., B.M., B.Ch. Ox., F.R.C.S. (LW.).
Dore, S. E., M.A., M.D., B.Ch. Camb., F.R.C.P. (W., T.).
Drake, J. A., M.D., D.P.H. (KM.).
Fox, W. S., M.D., B.Ch., M.A. Camb., F.Z.S. (SG.).
Gray, A. M. H., C.B.E., M.D., B.S., F.R.C.S., F.R.C P. (UM.).
Little, E. G. G., B.A. Cape, M.D., F.R.C.P. (SM.).
MacCormac, H. (v. Med., p. 158) (M.).
Macleod, J. MacL. H., M.D., C.M. Aberd., M.A. St. And., F.R.C.P. (C.).
Sequeira, J. H., M.D., F.R.C.P., F.R.C.S. (L.).
Whitfield, A., M.D., F.R.C.P. (KM.).

Diseases of Children

Jewesbury, R. C., M.A., M.D. Ox., F.R.C.P. (T.).
Paterson, D. H., B.A., M.B., Ch.B. Manitoba, M.R.C.P. (W.).

Diseases of Children & Medicine

Cameron, H. C., M.A. Camb. and Glas., M.D. Camb., F.R.C.P. (G.).
Fletcher, H. M., M.A., M.D., B.Ch. Camb., F.R.C.P. (B.).
Poynton, F. J., M.D., F.R.C.P. (25, UM.).
Still, G. F., M.D., B.Ch., M.A. Camb., F.R.C.P. (25, KM.).
Thompson, H. T., M.D., B.Ch., M.A. Camb., B.Sc., F.R.C.P., F.R.C.S. (25, L.).
Thursfield, J. H., D.M., M.A. Ox., F.R.C.P. (25, B.).
Voelcker, A. F., M.D., B.S., F.R.C.P. (25, M.).

Diseases of Children & Surgery

Fairbank, H. A. T., O.B.E., M.S., M.B., F.R.C.S., L.D.S. (25, KM.).

Diseases of Women

Hedley, J. P., M.A., M.Ch., M.B. Camb., F.R.C.P., F.R.C.S. (T.).
Vaughan-Sawyer, Mrs., D.Sc., LL.D. Glas., M.D., B.S. (LW.).

Diseases of Women and Midwifery

Barris, J. D., B.A., M.B., B.Ch. Camb., F.R.C.S. (B.).
Berkeley, G. H. A. C., M.A., M.D., M.Ch. Camb., F.R.C.P. (M.).
Bonney, W. F. V., M.D., M.S., B.Sc., F.R.C.S. (M.).
Chapple, H., M.A., M.Ch., M.B. Camb, B.Sc., F.R.C.S. (G.).
Dodd, S., M.A., M.B., B.Chir. Camb. (W.).
Donaldson, M., B.A., M.B., B.Ch. Camb., F.R.C.S. (B.).
Fairbairn, J. S., M.A., M.B., B.Ch. Ox., F.R.C.P., F.R.C.S. (T.).
Holland, E., M.D., F.R.C.S., F.R.C.P. (L.).
Luker, S. G., M.A., M.D., B.Ch. Camb. (L.).
Palmer, A. C., M.B., B.S., F.R.C.S. (KM.).
Roy, D. W., M.A, M.B., B.Ch. Camb., F.R.C.S. (SG.).

Forensic Med., v. also Bio-Chem., Chem.—Path.

Brend, W. A., M.A. Camb., M.D., B.Sc. (C.).
Jones, G., M.A., B.M., B.Ch. Ox., D.P.H. (L.).
Lynch, G. R., M.B., B.S., D.P.H. (W.)
Lyster, R. A., M.D., Ch.B., B.Sc. (Pub. Health), D.P.H. Birm., B.Sc. (also in Hyg.) (B.).
Smith, E., M.D. (T.).

Helminthology

Leiper, R. T., D.Sc., M.D., Ch.B. Glas. Prof. (H.).

(B), (C), etc., (23), (24), etc., v. *Note* on p 154

Hygiene

Allan, F. J., M.D., C.M. Edin., D.P.H. Camb. (W.).
Brincker, J. A. H., B.A., M.B., B.Ch. Camb., D.P.H., F.I.C. (SM.).
Brown, R. K., M.D., B.Ch., B.A.O., B.A. R.U.I., D.P.H. (G.).
Carnwath, T., B.A., M B., B.Ch., B.A.O. (R.U.I), D P H Camb. (T.).
Foulerton, A. G. R., O.B.E., D.P.H. Camb., F.R C.S. (LW.).
Lyster, R. A. (v. Forensic Medicine) (B.).
Porter, C., M.D., C.M., B.Sc. Edin. (M.).
Simpson, Sir Wm. J. R., C.M.G., M.D., C.M. Aberd., F.R.C.P., D.P.H. Camb. Prof. (KM.).
Spitta, H. R., D., M.V.O., M.D. Durh., D.P.H. Camb. (SG.).

Laryngology, Oto-Rhino-

Barwell, H. S., M.B., F.R.C.S. (SG).
Cheatle, A. H., C.B.E., F.R.C.S. (KM.).
Chubb, G. C., D.Sc., M.B., B.S, F.R.C.S. (W).
Cleminson, F. J., M.A., M.Ch. Camb., F.R.C.S. (M.).
Davis, E. D. D., F.R.C.S. (C.).
French, J. G., M.B., M.S., F.R.C.S. (LW.).
Graham, C. I., F.R.C.S. (SM.).
Harmer, W. D., M.Ch., M.B., M.A. Camb., F.R.C.S. (B.).
Hastings, S., M.S., M.B., F.R.C.S. (M.).
Hope, C. W. M., M.D., B.S. Durh., F.R.C.S. (KM.).
Howarth, W. G., M.A., M.B., B.Ch. Camb., F.R.C.S. (T.).
Lack, H. L., M.D., F.R.C.S. (L.).
Layton, T. B., M.B., M.S., F.R.C.S. (G.).
Lees, K. A., M.A., M.B., B.Ch. Camb., F.R.C.S. (SM.).
Marriage, H. J., M.B , B.S., F.R.C.S. (T.).
Mollison, W. M., C B.E., M.A., M.Ch. Camb., F.R.C.S. (G.).
Muecke, F. F., C.B.E., M.B., B.Ch. Adel , F.R.C.S. (L.).
Negus, V. E., M.S., M.B., F.R.C.S. (KM.).
Patterson, N., M.B., Ch.B Edin., F.R.C.S. (L.).
Rose, F. A., M.A., M.B., B.Ch. Camb., F.R.C.S. (B.).
Scott, S. R., M.S., M.B., F.R.C.S. (B., 26).
Tilley, H., B.S., M.D., F.R.C.S. (UM.).

Medicine, v. also Chem.—Path., Dis. of Child., Mental Dis., Pharmacol.

Abrahams, A., B.A., M.D., B.Ch. Camb. (W.).
Beaumont, G. E., M.A., D.M. Ox., F.R.C.P., D.P.H. (M.).
Beddard, A. P., M.D., B.Ch., M.A. Camb., F.R.C.P., F.R.C.S. (G.).
Bennett, T. I., M D. (M).
Boldero, H. E. A., M.A., D.M., B Ch. Ox. (M.).
Bolton, C., C.B.E., M.D., B.S., D.Sc., F.R.C.P., F.R.S. (UM.).
Bosanquet, W. C., M.A., D.M. Ox., F.R.C.P. (C., 24).
Box, C. R., M.D., B.S., B.Sc., F.R.C.P., F.R.C.S. (T.).
Branson, W. P. S., C.B.E., M.D., B.Ch., B.A. Camb., F.R.C.P. (LW.).
Briscoe, Sir John C., Bart., M.D., F.R.C.P. (KM.).
Broadbent, Sir John F. H., Bart., M.D., B.Ch., M.A. Ox., F.R.C.P. (SM.).
Brown, W. L., M.A., M.D., B.Ch. Camb., F.R.C.P. (B.)

(B), (C), etc., (23), (24), etc., v. *Note* on p. 154.

Buzzard, E. F., M.D., B.Ch., M.A. Ox., F.R.C.P. (T., 26).
Carlill, H., M.A., M.D., B.Ch. Camb. (W.).
Cassidy, M. A., M.A., M.D , B Ch. Camb., F.R.C.P. (T.).
Chodak Gregory, Mrs. H. H., M.D. (LW.).
Cockayne, E. A., M.A., D.M. Ox , Ch.B., F.R.C.P. (M.).
Collier, J. S., M.D., B.Sc., F.R.C.P. (SG., 26).
Crawfurd, R. H. P., M.D., B.Ch., M.A. Ox., F.R.C.P. (KM.).
Dawson of Penn, The Rt. Hon. Lord, G.C.V.O., K.C.M.G., C.B., M.D., B.Sc., F.R.C.P. (L.).
De Souza, D. H., M.D., D.Sc., F.R.C.P. (W.).
East, C. F. T., M.A., B.M., B.Ch. Ox. (KM.).
Elliott, T. R., C.B.E., M.A., M.D. Camb., F.R.C.P., F.R.S. Prof. (UM.).
Ellis, A. W. M., O.B.E., M.D. Prof. (L.).
Evans, A. G., B.A., M.D. Camb., F.R.C.P. (B.).
Fawcett, J., M.D., B.S., F.R.C.P., F.R.C.S. (G.).
Fenton, W. J., M.A., M.D., B.Ch. Camb., F.R.C.P. (C., 24).
Firth, A. C. D., M.A., M.D., B.Ch. Camb., F.R.C.P. (LM.).
Forsyth, D., M.D., D.Sc., F.R.C.P. (C.).
Fraser, F. R., B.A. Camb., M.B., Ch.B., F.R.C.P. Edin. Prof. (B.).
French, H. S., C.B.E., M.D., B.Ch., M.A. Ox., F.R.C.P. (G.).
Gosse, A. H., M.D., M.A. Camb. (SM.).
Graham, G., M.D. Camb. (B.).
Hare, Dorothy C., M.D. (LW.).
Harris, W., B.A., M.D., B.Ch. Camb., F.R.C.P. (SM.).
Hartley, Sir Percival H.-S., C.V.O., M.D., B.Ch., M.A. Camb., F.R.C.P. (B., 24).
Horder, Sir Thos. J., Bart., M.D., B.Sc., F.R.C.P. (B.).
Howell, C. M. H., M.A., M.D. Ox., F.R C.P. (G.).
Hunt, G. H., M A., D.M., B.Ch. Ox., F R.C.P. (G.).
Hurst, A. F., M D. (v. Neurology) (G.).
Kidd, P., M.A., D M. Ox., F.R.C.P. (L.).
Lakin, C. E., M.D., B.S., F.R.C.S., F.R.C.P. (M.).
Langmead, F. S., M.D., F.R.C.P. Prof. (SM.).
Lewis, Sir Thos., C.B.E., D.Sc. Wales, M.D., F.R.C.P., F.R.S. (UM.).
MacCormac, H., C.B.E., M.B., Ch.B. Edin., F.R.C.P. (M.).
MacLean, H., M.D., Ch.B. Aberd., M.Sc. Liv , D.Sc. Prof. (T.).
Marshall, G., O.B.E., M.D. (G.).
Miller, R. H., M.D., B.S., F.R.C.P. (SM.).
Mutch, N., M.A., M.D., B.Ch. Camb., F.R.C.P. (also in *Pharmacol.*) (G.).
Ogle, Cyril, M.A., M.D., B.Ch. Ox., F.R.C.P. (SG.).
Parkinson, J., M.D., B.S. (L.).
Phear, A. G., C.B., M.D., B.Ch., B.A. Camb., F.R.C.P. (LW.).
Poulton, E. P., M.A., M.D., B.Ch. Ox., F.R.C.P. (G.).
Purves-Stewart, Sir James P. M., K.C.M.G., C.B., M.D., C.M., M.A. Edin., F.R.C.P. (W.).
Riddoch, G., M.D., Ch.B. Aberd. (L.).
Rowlands, R. A., O.B.E., B.Sc., M.D., B.S. (L.).
Russell, A. E., M.D., B.S., F.R.C.P. (T.).
Ryle, J. A., M.D. (G.).

(B), (C), etc., (23), (24), etc , v. *Note* on p. 154.

Shaw, H. B., M.D., B.S., F.R.C.P., F.R.C.S. (UM., 24).
Smith, L. A., M.D., F.R.C.P. (L.).
Stott, A. W., M A., B.Ch Camb (W.)
Tidy, H. L., M.A., D.M , B Ch. Ox., F.R.C.P. (T.).
Torrens, J. A., M.D., B.S., F.R.C.P. (SG.).
Tunnicliffe, F. W., M D. (KM).
Turner, W. A , C.B., M.D., C.M. Edin., F.R.C.P. (KM , 26).
Wall, R. C. B., D.M., B.Ch., M.A. Ox., F.R.C.P. (L., 24).
Ward, G. E. S., M.D., B.S., F.R.C.P. (M.).
Wilson, C. McM., M.D., B.S., F.R.C.P. (SM.).
Woodwark, A. S., C M.G., C.B.E., M.D., B.S., F.R.C.P. (W.).
Wynter, W. E., M D., B.S., F.R.C.P., F.R.C.S. (M.).
Young, R. A., C.B.E., M.D., B.Sc., F.R.C.P. (M., 24).

Mental Diseases

Chambers, J., M.A., M.D., M.Ch. R.U.I. (M.).
Cole, R. H., M.D., F.R.C.P. (SM.)
Craig, Sir Maurice, C.B.E., M.A., M.D., B.Ch. Camb., F.R.C.P. (G.).
Devine, H., M.D., B.S., F.R.C.P. (My.).
Hart, B., M.D. (UM.).
Macnamara, E. D., M.A., M.D., B.Ch. Camb., F.R.C.P. (C.).
Mapother, E., M.D., F.R.C.S. (KM), (My.).
Mott, Sir Frederick W., M.D., B.S. Lond., LL.D. Edin , F.R.C.P., F.R.S. (My.).
Norman, H. J., M.B., Ch.B. Edin., D.P.H. Edin. & Glas. (W.).
Phillips, J. G. P., M.D., B.S., F.R.C.P. (Bm.).
Shrubsall, F. C., M.A., M.D. Camb., F.R.C.P., D.P.H. (My.).
Stoddart, W. H. B , M.D., B.S., F.R C P., recogd. in Med. at (Bm.) (T.).
Sullivan, W C., M.D. R.U.I. (My.).

Midwifery, v. also Diseases of Women

Andrews, H. R., M.D., B.S , F.R.C.P. (L.).
Blacker, Sir George F., M.D., B.S., F.R.C.P., F.R.C.S. (UM.).
Bourne, A. W., B.A., M.B., B.Ch. Camb., F.R.C.S. (S.M.).
Eden, T. W., M.D. Edin., F.R.C.P., F.R.C.S.E. (C.).
Gilliatt, W., M.D., M.S., F.R.C.S. (KM.).
McIlroy, Anne L., O.B.E., M.D., B.S., D.Sc. Glas.
Prof. of Obst. and Gyn. (LW.).
Smith, G. Bellingham, M.B., B.S., F.R.C.S. (G.).
Smith, G. F. D., M.A., B.M., B.Ch. Ox., F.R.C.S. (SG.).
Stevens, T. G., M.D., F.R.C.S. (SM.).

Neurology

Birley, J. L., M A., D.M., B.Ch. Ox., F.R.C.P. (T.).
Golla, F. L., O.B.E., M.A., M.B. Ox., M B., F.R.C.P. (My.).
Howell, C. M. H., M.A., D.M. Ox., F.R.C.P. (26).
Hurst, A. F., M.D., B.Ch., M.A. Ox., F.R.C.P (G.).
McAlpine, D., M.D., Ch.B. Glas. (M.).
Walshe, F. M. R., M.D., D.Sc., F.R.C.P. (UM.).
Wilson, S. A. K., M.A., B.Sc., M.D. Edin., F.R.C.P. (KM., 26).

Ophthalmology

Cargill, L. V., F.R.C.S. (KM.).
Collins, E. T., F.R.C.S. (27, C.).
Eason, H. L., C.B., C.M.G., M.D., M.S. (G.)

(B), (C), etc., (23), (24), etc., v. *Note* on p. 154.

Goulden, C. B., M.A., M.Ch., M.D. Camb., F.R.C.S. (L.).
Greeves, R. A., M.B., B.S., B.A. R.U.I., F.R.C.S. (M.).
Griffith, A. D., M.B., B.S., F.R.C.S. (W.).
Grimsdale, H. B., B.A., M.B., B.Ch. Camb., F.R.C.S. (SG.).
Hepburn, M. L., M.D., B.S., F.R.C.S. (LW., 27).
James, R. R., F.R.C.S. (SG.).
Jeremy, H. R., F.R.C.S., L.R.C.P. (L.).
Juler, F. A., M.B., B.Ch., M.A. Camb., F.R.C.S. (SM., 27).
Lawson, Sir Arnold, K.B.E., M.D. Brux., F.R C.S. (M.).
Lister, Sir Wm. T., K.C.M.G., M.B., B.Ch., B.A. Camb., F.R.C.S. (L.).
Lyle, H. W., M.D., B.S., F.R.C.S. (KM.).
Moore, R. F., O.B.E., M.A., B.Ch. Camb., F.R.C.S. (B., 27).
Neame, H., M.B., Ch.B. (UM.).
Ormond, A. W., F.R.C.S. (G.).
Parsons, Sir John H., C.B.E., D.Sc., M.B., B.S., F.R.C.S., F.R.S. (UM., 27).
Paton, L. J., M.B., B.Ch., B.A. Camb., F.R.C.S. (SM., 26).
Spicer, W. T. H., M.A., M.B. Camb., F.R.C.S. (B., 27).
Whiting, M. H., M.A., M.B. Camb., F.R.C.S. (M.).
Williamson-Noble, F. A., B.A., M.B., B.Chir. Camb., F.R.C.S. (SM.).

Pathology, v. also Anat.—Morb., Chem., Bact.

Andrewes, Sir Fredk. W., O.B.E., M.A., M.D., B.Ch. Ox., F.R.C.P., D.P.H. Camb., F.R.S. (recogd. in Bact.) Prof. (B.).
Dible, J. H., M.B., Ch.B. Glas. Prof. (LW.).
Boycott, A. E., M.A. B.Sc., B.Ch., D.M. Ox., F.R.S. Graham Prof. (UM.).
Creed, E. ff., M.A., B.M., B.Ch., D.P.H. Ox. (KM.).
Donaldson, R., M.A., M.D., D.T.M. Edin., D.P.H., F.R.C.S. (SG.).
Dudgeon, L. S., C.M.G., C.B.E., F.R.C.P. (also in Bact.) Prof. (T.).
Fox, I., M.B., B.S. (LW.).
Goodhart, G. W., M.D. (UM.).
Hicks, J. A. B., M.D., B.S., D.P.H. (recogd. also in Bact.) (W.).
Lakin, C. E., M.D., B.S., F.R.C.P., F.R.C.S. (also in Med.) (M.).
McIntosh, J., M.D., Ch.B. Aberd. Prof. (M.).
Newcomb, W. B., M.A., M.B., B.Chir. Camb. (SM.).
Perry, Bt. Lt.-Col. H. M. J., L.R.C.P. and S.I. (AM.).
Stokes, A., O.B.E., M.D., B.Ch., B.A.O. Dub. Dunn Prof. (G.).
Teale, F. H., M.D., B.Sc., F.R.C.P. (UM.).
Williamson, G. S., M.B., B.Ch. Edin. (LW.).

Pathology, Experimental

Chick, Harriette, M.D. (L.).
Martin, C. J., C.M.G., D.Sc. Shef., D.Sc., M.B., F.R.S. (Prof. LI.).
Wright, Sir Almroth E., K.B.E., C.B., M.D., B.Ch., Sc.D. Dub., B.A. Camb., F.R.S. Prof. (SM.).

Pharmacology, v. also Med.

Greenish, H. G., F.I.C., F.L.S., Doc. Univ. Paris (P.).
Hamill, P., M.A., M.D. Camb., D.Sc., F.R.C.P. (B.).
Leyton, O. F. F., M.A., M.D., B.Ch. Camb., D.Sc., F.R.C.P. (also in Med.) (L.).
Scarborough, Eleanor M. Reader (LW.).

(B), (C), etc., (23), (24), etc., v. *Note* on p. 154.

Woolley, V. J., M.A., M.D. Camb. (T.).

Physics

Brinkworth, J. H., M.Sc. (T.).
Hopwood, F. L., D.Sc. Prof. (B.).
Russ, S., D.Sc. Joel Prof. (M.).
Stead, G., M.A. Camb. Reader (G.).
White, W. H., M.A. Camb., B.Sc., A.R.C.S. (SM.).

Physiology

Collingwood, B. J., B.A., M.D., B.Ch. Camb. Prof. (SM.).
Cullis, Winifred C., O.B.E., D.Sc. Prof. (LW.).
Evans, C. A. Lovatt, D.Sc. Prof. (B.).
Hewer, E. E., D.Sc. (*Histology*) (LW.).
Mcllanby, J., M.A., M.D. Camb. Prof. (T.).
Pembrey, M. S., M.A., M.D., B.Ch. Ox., F.R.S. Prof. (G.).
Roaf, H. E., M.D. Tor., D.Sc. Liv. Prof. (L.).
Smart, W. A. M., B.Sc., M.B., B.S. (L.).
Symes, W. L., M.R.C.S. (T., 9).
Vincent, S., D.Sc. Edin., M.D. Prof. (M.).

Protozoology

Thomson, J. G., M.A., M.B., Ch.B. Edin. Reader (H.).
Woodcock, H. M., D.Sc. (LI.).

Radiology

Webster, J. H. D., M.D., Ch.B. Edin. (M.).

Surg., v. also Dis. of Child.

Adams, J. E., M.S. (T.).
Back, I., M.A., M.B., B.Ch. Camb., F.R.C.S. (SG.).
Ball, W. G., F.R.C.S. (B.).
Bankart, A. S. B., M.A., M.Ch. Camb., F.R.C.S. (Orthopædics) (M.).
Bromley, L., M.B., M.Ch. Camb., F.R.C.S. (G.).
Bryan, C. W. G., F.R.C.S. (SM.).
Cade, S., F.R.C.S. (W.).
Carling, E. R., M.B., B.S., F.R.C.S. (W.).
Cheatle, Sir George L., K.C.B., C.V.O., F.R.C.S. (KM.).
Choyce, C. C., C.M.G., C.B.E., B.Sc., M.D. Edin., F.R.C.S. (UM.).
Clogg, H. S., M.S., M.B., F.R.C.S. (C.).
Cope, V. Z., M.A., M.D., M.S., F.R.C.S. (SM.).
Cunning, J., M.B., B.S. Melb., F.R.C.S. (LW.).
Daniel, P. L., F.R.C.S. (C.).
Davies-Colley, R., C.M.G., M.A., M.Ch. Camb., F.R.C.S. (G.).
Dunhill, T. P., C.M.G., M.D., B.S. Melb. (B.).
Eccles, W. McA., M.S., M.B., F.R.C.S. (B.).
Edwards, A. T., M.A., M.Ch. Camb., F.R.C.S. (W.).
English, Sir Thos. C., K.C.M.G., M.B., B.S., F.R.C.S. (SG.).
Evans, A. H., O.B.E., M.D., M.S., F.R.C.S. (W.).
Everidge, J., O.B.E., F.R.C.S. (KM.).
Fagge, C. H., M.S., M.B., F.R.C.S. (G.).
Fedden, W. F., M.S., M.B., F.R.C.S. (SG.).
Fitzwilliams, D. C. L., C.M.G., M.D., Ch.M. Edin., F.R.C.S. (SM.).
Frankau, C. H. S., C.B.E., M.B., B.S., F.R.C.S. (SG.).
Fripp, Sir Alfred D., K.C.V.O., C.B., M.S., M.B., F.R.C.S. (G.).
Gask, G. E., C.M.G., F.R.C.S. Prof. (B.).
Gordon-Taylor, G., M.A. Aberd., M.S., B.Sc., F.R.C.S. (M.).
Gould, E. L. P., M.A., M.Ch., D.M. Ox. (M.).

(B), (C), etc., (23), (24), etc., v. *Note* on p. 154.

Handley, W. S., M.D., M.S., F.R.C.S. (M.).
Howard, R. J., C.B.E., M.S., M.B., F.R.C.S. (L.).
Hughes, E. C., M.A., M.Ch. Camb., F.R.C.S. (G.).
Joll, C. A., M.B., B.Ch. Brist., M.B., M.S., B.Sc. (LW.).
Legg, T. P., C.M.G., M.S., M.B., F.R.C.S. (KM.).
Lett, H., C.B.E., M.B., Ch.B. Manc., F.R.C.S. (L.).
Lewis, Emily C., M.S., M.B., F.R.C.S. (LW.).
Lindsay, E. C., B.Sc. N.Z., M.B., B.S., F.R.C.S. (L.).
Low, V. W., C.B., M.D., B.S., F.R.C.S. (SM.).
Martin, E. K., M.B., Ch.B. (UM.).
Maybury, B. C., M.B., B.S., F.R.C.S. (T.).
Milne. R., M.D., M.S., F.R.C.S. (L.).
Mitchiner, P. H., M.B., M.S., F.R.C.S. (T.).
Mullally, G. T., M.S. (W.).
Murray, J., M.B., B.Ch. Dub., F.R.C.S. (M.).
Neligan, G. E., B.M., B.Ch. Ox., F.R.C.S. (L.).
Nitch, C. A. R., M.B., M.S., F.R.C.S. (T.).
Norbury, L. E. C., M.B., B.S., F.R.C.S. (LW.).
Page, C. M., M.S., F.R.C.S. (T.).
Pannett, C. A., M.D., B.S., B.Sc., F.R.C.S. Prof. (SM.).
Pendlebury, H. S., M.A., M.B., B.Ch. Camb., F.R.C.S. (SG.).
Perrin, W. S., M.B., M.Ch. Camb., F.R.C.S. (L.).
Rawling, L. B., B.A., M.B., B.Ch. Camb., F.R.C.S. (B.).
Rigby, Sir Hugh M., K.C.V.O., M.B., M.S., F.R.C.S. (L.).
Roberts, J. E. H., O.B.E., M.B., B.S., F.R.C.S. (B.).
Romanis, W. H. C., M.A., M.B., M.Ch. Camb., F.R.C.S. (T.).
Rowlands, R. P., O.B.E., M.B., M.S., F.R.C.S. (G.).
Sargent, P. W. G., C.M.G., M.A., M.B., B.Ch. Camb., F.R.C.S. (T.).
Shattock, C. E., M.D., M.S., F.R.C.S. (LW.).
Sherren, J., C.B.E., F.R.C.S. (L.).
Slesinger, E. G., O.B.E., B.Sc., M.S., F.R.C.S. (G.).
Smith, S. M., C.B., M.B., B.S., F.R.C.S. (SM.).
Souttar, H. S., C.B.E., M.A., B.M., M.Ch. Ox., F.R.C.S. (L.).
Spencer, W. G., O.B.E., M.S., M.B., F.R.C.S. (W.).
Steward, F. J., M.S., M.B., F.R.C.S. (G.).
Thompson, A. R., M.B., Ch.M. Manc., F.R.C.S. (G.).
Trotter, W. B. L., M.D., M.S., F.R.C.S. (UM.).
Turner, P., M.S., M.B., B.Sc., F.R.C.S. (G.).
Turner, W., M.S., M.B., F.R.C.S. (W.).
Vick, R. M., O.B.E., M.A., M.Ch., F.R.C.S. (B.).
Walker, Sir J. W. Thomson, C.M. Edin., F.R.C.S. (KM.).
Wallace, Sir Cuthbert S., K.C.M.G., C.B., M.B., F.R.C.S. (T.).
Walton, A. J., B.Sc., M.B., M.S., F.R.C.S. (L.).
Waring, Sir Holburt J., C.B.E., M.B., M.S., B.Sc., F.R.C.S. (B.).
Warwick, W. T., M.B., Ch.B. (M.).
Waterhouse, Sir Herbt. F., M.D. Edin., F.R.C.S. (C.).
Webb, C. H. S., M.S., M.B., F.R.C.S. (M.).
Webb-Johnson, A. E., C.B.E., M.B., Ch.B. Manc., F.R.C.S. (M.).

(B), (C), etc., (23), (24), etc., v. *Note* on p. 154.

West, Lt.-Col. J. W., M.B , B.Ch., B.A.O., N.U.I., M.S. Belf., D.P.H.I. (Mily. S.) (AM.).
Williams, G. E. O., M.D., M.S., F.R.C.S. (UM.).
Wilson, H. W., M.B., M.S., F.R.C.S. (B.).

Trop. Med.
Hewlett, R. T., M.D., F.R.C.P. (H.).
Low, G. C., M.A. St. And., M.D., C.M. Edin. (H.).
Newham, H. B. G., C.M.G., M.D., D.P.H., D.T.M. and H. Camb. (H.).

Trop. Surg.
Cantlie, Sir James, K.B.E., M.A., M.B., C.M. Aberd., F.R.C.S., D.P.H. (H.).

Venereal Diseases
Harrison, Col. L. W., M.B., Ch.B. Glas. (T.).

Zoology, v. also Protozoology
Evans, Thomas James, M.A. Ox. (G.).

Dental Science

Dental Anat. and Physiol.
Hopson, M. F., L.D.S. (D. Anat.) (G.).
Underwood, A. B. G., M.B., B.S., L.D.S. (UM.).

Dental Histology
Malleson, H. C., L.D.S., M.R.C.S., L.R.C.P. (G.).

Dental Materia Medica
Doubleday, F. N., L.D.S. (G.).

Dental Mechanics
Bull, F. B., L.D.S. (G.).
Chapman, H., L.D.S. (*Orthodontics*) (L.).
Gabell, D. P., L.R.C.P., M.R.C.S., L.D.S. (D.).
Matthews, G. F. C., B.D.S. Birm., L.D.S. (KM.).
Olver, S. H., L.D.S. (UM.).

Dental Prosthetics
Fry, W. K., L.D.S. (G.).
Milne, J. B., L.D.S. Edin. (KM.).

Dental Surgery
Bennett, N. G., M.A., M.B., B.Ch. Camb., L.D.S. (SG.).
Buxton, J. L. D., L.D.S. (UM.).
Clapham, H. D., M.R.C.S., L.R.C.P., L.D.S. (L.).
Colyer, Sir James F., K.B.E., L.R.C.P., F.R.C.S., L.D.S. (C.).
Dolamore, W. H., L.R.C.P., M.R.C.S., L.D.S. (SM., D.).
Dowsett, E. B., D.S.O., L.D.S., M.R.C.S., L.R.C.P. (G.).
Livingston, A., M.B., Ch.B., M.D.S. Liv. (Surg. and Path.) (KM.).
Pearce, F. J., L.D.S., D.D.S. (G.).
Sprawson, E. C., M.R.C.S., L.R.C.P., L.D.S. (L.).
Turner, H. W., M.R.C.S., L.D.S. (M.).
Turner, J. G., F.R.C.S., L.D.S. (D.).
Wallis, C. E., L.R.C.P., M.R.C.S., L.D.S. (KM.).

(B), (C), etc., (23), (24), etc., v. *Note* on p. 154.

GENERAL INFORMATION

ROYAL ARMY MEDICAL COLLEGE, Grosvenor Rd., S.W.1. Commandant—Col. C. W. Mainprise, D.S.O.

Opened 1902; under Army Med. Advisory Board; open only to fully qualified medical men commissioned in or probationers for the R.A.M.C. or I.M.S. Profs. of Path. and Bact., Hygiene, Trop. Med., and Military Surgery. Special teaching in Physical Training and at Mily. Hospl. (81

beds), Syphilology. Qu. Alexandra Mily. Hospl. (234 beds) forms part of the Coll. Students (average, about 70) are probationers and Captains, R.A.M.C., taking 5 mos.' course for promotion. *Residential* accommodation for 70.

ST. BARTHOLOMEW'S HOSPITAL, Medical College, West Smithfield, E.C.1. Dean—T. W. Shore, O.B.E., M.D., B.Sc. Sub-Dean—W. Girling Ball, F.R.C.S.

Founded 1662. Appointed and Recognized Teachers—40 (v. *supra*); *Library*: the largest of the kind in London. *Museum*: 9400 specimens, 2000 casts and drawings. *Laboratories*, with facilities for research in Path., Pharmacol., etc. 757 beds. *Fees*: 220 gs. for whole curriculum; from 1st M.B., 190 gs. *Scholarships*: total annual value over £1000; two for Research in Path. (£115) and Surg. (£105) open to graduates of any Univ. educated at Bart's. Fellowship £600, open to graduates of any Univ. for research in Lymphadenoma. *Residential College* within Hospl. grounds for 26 students (Warden, R. M. Vick, O.B.E., M.Ch., F.R.C.S.). Large Athletic Grounds. Students' Union, including Athletic Clubs and Abernethian Soc. *Publications*: *Hospital Reports*, annually, and *Journal* (Students'), monthly. Women students are not eligible for admission.

BETHLEM ROYAL HOSPITAL, Lambeth Rd., S.E.1. *Physician Superintendent*—J. G. Porter Phillips, M.D., B.S., F.R.C.P.

Founded 1247. A centre for the teaching and practice of *Psychological Medicine*. Two courses of lectures and practical instruction for Dip.Psy. are held annually. Daily clinical instruction classes. Pathological Laboratory. X-Ray apparatus. Out-patients dept. at 52 Lambeth Rd., S.E.1. (Tues. and Fri. aftn., Thurs. morn.). Convalescent Home at Witley, Surrey.

CHARING CROSS HOSPITAL, Medical School, Charing Cross, W.C.2. Dean—W. J. Fenton, M.D., F.R.C.P. Founded 1821. Appointed and Recognized Teachers (v. *supra*)—14. *Fees*: entrance, 10 gs.; annual, 42 gs. Several scholarships, etc. Women students are admitted.

ROYAL DENTAL HOSPITAL AND LONDON SCHOOL OF DENTAL SURGERY, 32 Leicester Sq., W.C.2. Dean—H. Stobie, L.R.C.P., M.R.C.S., L.D.S. Secy.—W. J. Wadham.

Founded 1858. Open to both sexes. Recognized Teachers—3 (v. *supra*); others—30. Library, Museum, and Laboratories. X-Ray Dept. *Fees*: £70 for 2 yrs.' Hospl. practice and Lectures, or, including 2 yrs.' Dent. Mechanics, £210.

GUY'S HOSPITAL, Medical School, St. Thomas's St., Borough, S.E.1. Dean—Prof. T. B. Johnston, M.B., Ch.B. Clerk to the Dean—S. H. Croucher.

Founded in connexion with St. Thomas's, 1769; as a separate School, 1825. Appointed and Recognized Teachers—46 (v. *supra*). Library, 10,000 vols. Museum, 5000 specimens and 2000 drawings. 626 beds. Fully equipped Dental Dept. with Lab. *Fees*: entrance, £28; annual, £49. Foundations in aid of Research: Lect'ship in Path., approx. £1300 p.a.; in Clin. Chem., £250; Trav. Studentship, £150; Studentship in Mat. Med., £40; in Path., £250; Dem'rship in Clin. Chem., £150; in Path., £320; Med. Research Fellowship, etc. Numerous prizes and entrance scholps. Resident *appointments*—58 annually. *Residential* accommodation for 35 students. Furnished rooms, 19s. to 36s. *Students' publication*: *G.H. Gazette*. Women students are not eligible for admission.

HYGIENE AND TROPICAL MEDICINE, LONDON SCHOOL OF. Director—Dr. Andrew Balfour, C.B., C.M.G., D.P.H. Secy.—R. W. Harris. 23 Endsleigh Gardens, Euston Rd., N.W.1.

This School, constituted by Royal Charter on April 1, 1924, took over on Aug. 1, 1924, the London School of Tropical Medicine, formerly under the control of the Seamen's Hospital Society. The Charter provides that, subject to compliance with the Statutes of the University, it will be recognized in the Faculty of Science and in the Faculty of Medicine in so far as the branches of Public Health, Hygiene, State Medicine, and Tropical Medicine are concerned. The school is being built and equipped with a sum of $2,000,000 provided by the Rockefeller Foundation, who made the gift on the understanding that the British Government would make adequate grants for staffing and maintaining the School when the new building is completed. It will include the following departments: (1) Applied Physiology and Principles of Hygiene; (2) Chemistry and Bio-Chemistry; (3) Immunology and Bacteriology; (4) Medical Zoology; (5) Epidemiology and Statistics; (6) the Practice of Preventive Medicine, General Sanitation, and Administration; (7) Tropical Medicine (and Hygiene). It will provide for the training and equipment of public health officers, and for research in the various branches of preventive medicine.

Division of Tropical Medicine and Hygiene. The work of the Tropical Division of the School is carried on at present at Endsleigh Gardens, Euston Road, N.W.1. Appointed and Recognized Teachers—6 (v. *supra*). Library, Museum, and up-to-date Laboratories with accommodation for 100. Special Depts. for Entom., Helminth., Proto-zool. In the various Hospls. of the Seamen's Hospital Society are always numerous cases of Trop. Diseases. The funds available for encouraging research include the Lord Milner Research Funds, the Wandsworth Bequest, and the E. J. Stanley Memorial. Research expeditions are equipped and maintained by the School and Field Stations established. Students must ordinarily be qualified Med. practitioners or qualified Veterinary Surgeons. There are 2 sessions of 20 weeks each. An examn. is held at end of each term. Trop. Med. courses suitable for candidates for the M.D. in Trop. Med., Camb. diploma in Trop. Med. and Hyg., and diploma in Dis., etc., of Tropics of Roy. Colls. Certificates granted. *Fees*: 30 gs. for 20 weeks. *Number of Students* about 60 per session.

KING'S COLLEGE HOSPITAL, Medical School, Denmark Hill, S.E.5. Dean—H. Willoughby Lyle, M.D., B.S., F.R.C.S. Secy.—S. C. Ranner, M.A. Women students are admitted.

Appointed and Recognized Teachers—31 (v. *supra*); others—18. *Fees*: entrance, 10 gs.; complete courses for Med. Degree and Diploma examns., 200 gs.; final course only, 93 gs. *Scholarships*: 2 of £80 for Ox. and Camb. students; 1 of £50 for Univ. students from Epsom College; 1 of £50 at entrance (Science) and 2 of £50 for students who have passed in Biol., Chem., and Physics and propose to graduate in any British Univ. *Hostel* with accommodation for 80 men students. *Students' Publication*: *K.C.H. Gazette.*

LONDON HOSPITAL, Medical College, Turner St., Mile End, E.1. Dean—Prof. W. Wright, M.B., D.Sc., F.R.C.S. Secy.—E. J. Burdon. Women students are not eligible for admission.

Founded 1781. Appointed and Recognized Teachers—43 (v. *supra*); others—65. Library includes Thompson Yates Research Library containing chief foreign periodicals for Anat., Physiol., and Path. Laboratories include those of Path. Inst. for Advanced Research. 950 beds. *Fees*: entrance,

20 gs.; annual, 40 gs. 34 scholps. and prizes. Hostel for 25 students. 150 appointments available for students. *Student Publication*: *L.H. Gazette*.

LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Bridge Rd., S.W.1. Director—Prof. C. J. Martin, C.M.G., M.B., D.Sc., F.R.S.

Founded 1891 for Research into causation, prevention, and treatment of diseases of men and animals. Open to Research students of both sexes, usually without fee. Appointed and Recognized Teachers—8 (v. *supra*); 10 other members of scientific staff.

LONDON (ROYAL FREE HOSPITAL) SCHOOL OF MEDICINE FOR WOMEN, 8 Hunter St., Brunswick Sq., W.C.1. Dean—Dame L. B. Aldrich-Blake, D.B.E., M.D., M.S. Warden and Secy.—Miss Brooks.

Founded 1874. Appointed and Recognized Teachers—28 (v. *supra*); others—32. 240 beds. Special arrangements with several other Hospls. for Clin. study and dresserships, etc. Research Laboratories: Anat., Biol., Chem., Obst. and Gyn., Path., Pharmacol., Physics, Physiol. Courses for B.Sc. Hons. in Anat. and Physiol., as well as for Med. degrees and diplomas. Arrangements for Dental students. *Fees*: Composition, for full Med. course, £240, in annual instalments, £35, £60, £60, £50, £35. Students' chambers provided for 50 students. *Student Publication*: *L.S.M. Gazette*.

MAUDSLEY HOSPITAL, Denmark Hill, S.E.5. Medical Superintendent—E. Mapother, M.D., F.R.C.S. Director of Pathological Department—F. L. Golla, M.B., F.R.C.P.

Founded by the London County Council for research in Psychological Medicine, the teaching of this subject, and the treatment, on a voluntary basis, of those suffering from neuroses and from recoverable forms of mental disorder. The Hospital, which is similar in general character to the Neurological and Psychiatric Clinics of the Continent and America, and the associated Pathological Department, which serves all the London County Mental Hospitals (containing 20,000 patients), were admitted as a School of the University for research in Psychological Medicine on May 7, 1924. The Hospl. has 157 beds and an out-patient department. The Path. Dept. includes a Library and Laboratories for anatomical, bio-chemical, bacteriological, and experimental investigations. Diploma and other courses for undergraduate and graduate students. Facilities for research and for gaining experience. Ordinarily no charge is made for research work, and special grants-in-aid may be made.

MIDDLESEX HOSPITAL, Medical School, Mortimer St., W.1. Dean—E. L. Pearce Gould, M.D., F.R.C.S. School Secy.—R. A. Foley.

Founded 1835. Appointed and Recognized Teachers—39 (v. *supra*); others—13. Over 450 beds, including *Cancer wing* (90); Bland-Sutton Institute of Path. with Museum and Labs., *Cancer Research* Labs. (Prof. S. Russ), new Bio-Chem. Labs. Scholarships, etc., worth £1000 p.a., include 4 of £150 for *Cancer Research*. *Fees*: Entrance, £25; annual, £45. Women students not admitted.

NAVAL MEDICAL SCHOOL OF THE ROYAL NAVAL COLLEGE, Greenwich, S.E.10. Director of Med. Studies—Surg.-Comdr. T. B. Shaw, M.B., Ch.B. Edin., R.N.

Opened 1912. Courses (twice a year) in General and Naval Hygiene, Clin. Path., Micro-Biology, for acting Surg.-Lieuts. (2 mos., followed by 4 mos. at

Haslar Hospl.); Surg.-Lieuts. (5 mos.) for promotion; for Senior Med. Officers (3 mos.). Number of officers under instruction (average)—80 a year.

SCHOOL OF PHARMACY of Pharmaceutical Society of Great Britain, 17 Bloomsbury Sq., W.C.1. Dean—Prof. H. G. Greenish, D. ès Sc. Paris, F.I.C., F.L.S.

Founded 1842. Admitted as a School of the Univ. (in Pharmacy only) on Jan. 1, 1925. Recognized Teachers—3 (v. *supra*); others—8. *Fees*: Elem. Course, 25 gs.; advanced, 20 gs. Open to students of both sexes.

ST. GEORGE'S HOSPITAL, Medical School, Hyde Park Corner, S.W.1. Dean—J. A. Torrens, M.D., F.R.C.P.

Founded 1752. Appointed and Recognized Teachers—19 (v. *supra*); others—19. 440 beds. *Fees*: entrance for Clinical course, 10 gs. Annual composition, 40 gs. Scholarships, etc., worth £180 p.a. for encouragement of research. *St. G.'s Gazette* is issued 3 times a year. Women students are not eligible for admission.

ST. MARY'S HOSPITAL, Medical School, Paddington, W.2. Dean—C. M. Wilson, M.D., F.R.C.P. Secy.—B. E. Matthews, B.A. *Students' Publication*: *St. M.H. Gazette.*

Founded 1852. Appointed and Recognized Teachers—34 (v. *supra*); others—20. *Fees*: Course for 1st M.B., 3 terms, 20 gs.; entire curriculum, £200. *Scholarships*: £210 (2), £200 (2), £25. *Clinical Units* in Med. and Surg. established in 1920–21.

ST. THOMAS'S HOSPITAL, Medical School, Albert Embankment, S.E.1. Dean—Sir Cuthbert S. Wallace, K.C.M.G., C.B. Medical Secretary—A. Elliot, M.A., M.D.

Founded in 16th century. Recognized Teachers—37 (v. *supra*); others—36. Path. Dept. includes Museum with 3000 specimens. Large Laboratories for teaching and research. Hospl. beds, 602. *Fees*: Tuition per annum, £50. Hostel accommodation for 15. Women students are not eligible for admission.

TROPICAL MEDICINE, LONDON SCHOOL OF, v. *supra*—Hygiene.

UNIVERSITY COLLEGE HOSPITAL, Medical School, Gower St., W.C.1. Dean—Sir George Blacker, C.B.E., M.D., F.R.C.P., F.R.C.S. Open to both sexes.

The Med. School was separated from the Univ. Coll. Med. Faculty in 1905. Recognized Teachers—25 (v. *supra*); others 84. *Library*, 20,500 vols. The *Charles Graham Laboratories*, under the direction of Prof. A. E. Boycott, were established in 1902 for research in Path. A limited number of qualified students are admitted as Lab. workers, to whom grants may be made. *Fees*: course for Final M.B., B.S., or 3rd examn. of Conjoint Board—112 gs. *Scholarships, etc.*: annual value, £1250. *Residence* for Maternity students. *Publications*: *Prospectus, Transactions of Research Dept., Magazine* (Students').

The NATIONAL DENTAL HOSPITAL, founded in 1861, became the Dental Department of Univ. College Hospl. in 1914.

WESTMINSTER HOSPITAL, Medical School, 12 Caxton St., Westminster, S.W.1. Dean—A. S. Woodwark, C.M.G., C.B.E., M.D., F.R.C.P. Secy.—Major J. Burke, D.S.O. Women students are admitted.

Founded 1834. Recognized Teachers—23 (v. *supra*); others—12. *Fees*: 35 gs. p.a. and 10 gs. entrance.

FACULTY OF LAWS

The teaching of the Univ. has been arranged on an inter-collegiate basis, the Profs. and Teachers of Univ. and King's Colleges and of the London School of Economics dividing the work among them. See also staff lists of Birkbeck College and School of Economics.

PROFESSORS AND TEACHERS

Ball, W. Valentine, O.B.E., M.A. Camb.* (Railway L.) (K. and E.).

Bolland, W. C., M.A. Camb. (Legal History) (E. and U.).

de Montmorency, J. E. G., M.A., LL.B. Camb.* Quain Prof. of Comparative L. (U.).

Gattie, V. R. M., C.B.E., M.A. Ox.* (Criminal L.) (E.).

Griffith, W. Hussey, M.A. Camb.* (Common L.) (K.).

Gutteridge, H. C., M.A., LL.B. Camb.* Cassel Prof. of Comml. and Indust. L. (E.).

Hearnshaw, Prof. F. J. C., LL.M. Camb., LL.D. Dub. (History) (K.).

Hibbert, W. N., LL.D.* (Jurispr. & Roman L.) (K.).

Humphries, S., B.A., LL.B. Camb. (Comml. and Merc. L.) (4).

Hurst, G. H. J., M.A., LL.M. Camb.* Reader in English L. (U.) and Lectr. in Conveyancing (E.).

Jenks, E., M.A. Ox. and Camb., D.C.L. Ox., LL.B. Prof. of English L. (E.).

Jolowicz, H. F., M.A. Ox., M.A., LL.B. Camb. (U.).

Mackay, H. J. H., M.A., LL.B. Glas.* (English L.) (K.).

McNair, A. D., M.A., LL.M. Camb.* (Internat. L. and Common L.) (E.).

Morgan, J. H., B.A. Ox., M.A.* Prof. of Constitl. L. (U.), and Lectr. in Colonial Const. L. (U.).

Pollard, Prof. A. F., M.A. Ox., Litt.D. Manc. (History) (U.).

Roxburgh, R. F., B.A. Camb.* (Comml. and Indust. L.) (E.).

Sabonadière, A. (Hindu and Mohammedan L.) (O.).

Slesser, Sir Henry H.,* K.C. (Indust. L.) (E.).

* Barrister-at-Law.

For keys to symbols, (K.), etc., see p. 102 ; (4), p. 169.

OTHER INSTITUTIONS HAVING RECOGNIZED TEACHERS

(1) GOLDSMITHS' COLLEGE.*
(2) BATTERSEA POLYTECHNIC.
(4) CITY OF LONDON COLL.
(5) FINSBURY TECHNICAL COLL.
(6) JEWS' COLL.
(7) NORTHAMPTON POLYT. INST.
(8) NORTHERN POLYT. INST.
(9) ROYAL VETERINARY COLL.
(10) SIR JOHN CASS TECH. INST.
(11) CHELSEA POLYT.
(12) WEST HAM MUNICIPAL COLL.
(13) WOOLWICH POLYTECHNIC.
(14) MARIA GREY TRAINING COLL.
(15) ST. MARY'S COLL., PADDINGTON.
(16) BOROUGH ROAD COLL., ISLEWORTH.
(18) ROTHAMSTED EXPERIMENTAL STATION.
(19) ROYAL ACADEMY OF MUSIC.
(20) ROYAL COLL. OF MUSIC.
(21) TRINITY COLL. OF MUSIC.
(24) HOSPL. FOR CONSUMPTION.
(25) HOSPL. FOR SICK CHILDREN.
(26) NAT. HOSPL. FOR PARALYSED AND EPILEPTIC.
(27) ROYAL LOND. OPHTHALMIC HOSPL.

* Incorporated in the Univ.

NAMES OF RECOGNIZED TEACHERS

Note.—In the following list the names of the institutions are indicated by the numerals—(1), (2), etc., as above. Teachers to whom only probationary recognition has been granted are not included in the list.

Agriculture
Keen, B. A., D.Sc. (Physics applied to A.) (18).

Art (*Fine Art*)
Marriott, F., A.R.C.A., A.R.E. (1).

Biology, v. *supra*, Medical Schools' Recognized Teachers

Botany
Drabble, F., D.Sc. Lond. and Sheff., A.R.C.S., F.L.S. (8).
Lacey, H. B., F.L.S. (11).

Chemistry
Arnall, F., M.Sc. (11).
Barnett, E. de B., B.Sc. (10).
Clough, G. W., D.Sc. Birm. (9).
Cook, J. W., M.Sc., Ph.D. (10).
Dean, G., M.A. Camb. (12).
Doree, C., M.A. Ox., D.Sc. (11).
Drakeley, T. J., Ph.D., M.Sc., F.C.S., A.I.C. (8).
Field, S., A.R.C.S. (Applied C.) (7).
Hunter, H., D.Sc. (2).
Keane, C. A., D.Sc. Manc., Ph.D. Erl., F.I.C. (10).
Kenyon, J., D.Sc., F.I.C. (2).

Lowe, F. H., M.Sc. Manc. (11).
Melland, G., M.Sc. Manc., A.R.S.M., F.I.C. (13).
Pickard, R. H., B.Sc. Birm., Ph.D. Munich, D.Sc., F.R.S. (2).
Sand, H. J. S., Ph.D. Zur., D.Sc. Birm. (10).
Smith, F. W., B.Sc. (8).
Streatfeild, F. H. (12).
Thorne, P. C. L., M.A. Camb. (10).
White, J. L., D.Sc. Durh. (2).

Chemistry, Organic

Crocker, J. C., M.A. Camb., D.Sc., F.C.S. (11).
Richardson, D. H., M.Sc. (8).

Chemistry, Physical

Butler, R. R., B.Sc. (7).

Classics

Crump, Mary, M.A. (Latin) (1).

Education, v. also Music

Brock, F. H. C., M.A. (1).
Catty, N. M., M.A. (1).
Graveson, Caroline C., B.A. (1).
Johnston, Katharine L., M.A. Sheff., T.D. Camb., B.A. (14).
Meiklejohn, Grace I. W., M.A. Edin. (14).
Powell, Helena L. (15).
Raymont, T., M.A. (1).
Smith, Phyllis W., M.A. (14).
Steppat, Mrs. M. A. A., M.A. Durh., M.A. (14).
Wimms, J. H., M.A. Wales, B.Sc. (1).

Engineering, Civil

Curnock, W. E. M., M.Sc. (Eng.) Manc., B.Eng. Liv., A.M.I.E.E. (Lectr. in Civ. and Mech. E.) (2).

Engineering, Electrical

Baillie, T. C., D.Sc., M.A. Edin., A.M.I.E.E. (12).
Boraston, C. A., B.Sc. (Eng.) Liv. (7).
Bridger, W., B.Sc. (Eng.) (12).
Burgess, Alfred F., B.Sc. (Eng.) (7).
Dover, A. T., A.M.I.E.E. (2).
Dowse, C. M., B.Sc. (Eng.) (7).
Eccles, W. H., D.Sc., F.R.S. (5).
Hill, H., B.Sc. (Eng.) (7).
Howgrave-Graham, R. P. (recognized also in Applied Physics) (7).
Jolley, A. C. (7).
Mann, H. C., B.Sc. (Eng.) (2).
Spencer, W. G., M.Sc. (Tech.) Manc., A.M.I.E.E. (13).

Engineering, Mechanical, v. also E., Civil

Ashworth, M. H., B.Sc. Manc. (13).
Davies, V. C., B.Sc., A.M.I.Mech.E. (2).
Dumbrill, W. E., B.Sc. (Fluids) (7).
Edmonds, H. M., B.Sc. (Eng.) (2).
Frier, J. D. (Fluids) (7).
Larard, C. E., M.I.Mech.E., M.I.C.E. (7).
Richardson, D. (7).
Scoble, W. A., M.B.E., D.Sc. (Eng.), M.I.Mech.E., A.M.I.C.E. (13).
Shaw, J. B., A.R.C.S. (2).

Engineering, Mech., and Surveying

Duncan, J., M.I.Mech.E. (12).
Gladwyn, A. E., B.Sc. (Eng.), A.M.I.Mech.E. (12).
Parker, W. E., B.Sc. (Eng.) Manc. (7).

Geology

Brammall, A., M.Sc. (8).
Maslen, A. J., F.G.S. (11).

History

Dymond, Dorothy, M.A. (1).

Law, Commercial and Mercantile

Humphries, S., B.A., LL.B. Camb. (4).

Mathematics

Bickley, W. G., M.Sc. (2).
Church, A. E. R., M.A., B.Sc. (10).
Cooke, R. G., M.Sc. (11).

Clay, R. S., B.A. Camb., D.Sc. (Mathematics and *Physics*) (8).
Curzon, H. E. J., M.A. Camb., D.Sc. (1).
Harvey, F. W., M.A. R.U.I., B.Sc. (2).
Lister, J., A.R.C.S. (11).
Littlejohn, E S., M.Sc. Manc. (12).
Rhind, A., B.Sc., A.R.C.S. (8).
Salmon, W. H., M.A. Camb., B.Sc. (12).
Saxelby, F. M., M.Sc. Manc., B.A. (2).
Smith, R. T., B.A. Camb. (13).
Turner, G. C., B.Sc. (7).

Medicine and Surgery, v. *infra* (p. 172).

Metallurgy
Naish, W. A., A.R.S.M., M.I.M.M., A.I.C. (11).

Music
Allen, Sir H. P., Mus.D., M.A. Ox., F.R.C.M. (20).
Buck, P. C., M.A., Mus.Doc. Ox., M.A. Dub. Prof. (20).
Carse, A., F.R.A.M. (19).
Colles, H. C., M.A., B.Mus. Ox. (20).
Dale, B. J., F.R.A.M., F.R.C.O. (19).
Dunhill, T. F., A.R.C.M. (20).
Dyson, G., Mus.Doc. Ox. (20).
Farjeon, H., F.R.A.M. (19).
Greenish, A. J., Mus.D. Cambridge (19).
Harrison, J. H. G. (19).
Hinton, A., F.R.A.M. (19).
Horner, E. F., D.Mus. Durh., F.R.C.O. (21).
Kitson, C. H., M.A. Camb., Mus.Doc. Ox., F.R.C.O. (20).
McEwen, J. B., M.A. Glas., F.R.A.M. (19).
Macpherson, C., D.Mus. Durh., F.R.A.M., F.R.C.O. (19).
Macpherson, S., F.R.A.M. (19).
Morris, R. O., B.A. Ox. (20).
Oldroyd, G., D.Mus. (21).
Salsbury, Janet, Mus.D. Durh., L.R.A.M., F.R.C.O. (21).
Sowerbutts, J. A., B.Mus., F.R.C.O. (19).
Thatcher, R. S., M.A , Mus Doc. Ox., F.R.C.O. (21).
Waddington, S. P. (20).
Wallace, W., M.D. Glas., F.R.A.M. (19).
Warriner, J., Mus.D. Dub. (also in *Pedag.* as applied to Music) (21).
Wetton, H. D., D.Mus. Durh., F.R.C.O. (2).
Wharton-Wells, H., B.Mus. Ox. and Durh., F.R.C.O., L.R.A.M. (also recognised in *Pedag.* as applied to Music) (11).
Wood, C., M.A., Mus.D. Camb., LL.D. Leeds (20).

Pedagogy, v. Education and Music

Physics, v. also Maths.
Charlesworth, J., M.Sc. Manc. (8).
Clarke, F. C., B.Sc., A.M.I.E.E. (12).
Eccles, W. H., D.Sc., F.R.S. (Physics & Elec. Engineering) (5).
Emsley, H. H. (App. P.) (7).
Evans, A. E., B.Sc. (2).
Humphry, R. H. (10).
Lownds, L., Ph.D. Berl., B.Sc. (11).
Marsh, S., B.Sc. Wales, Ph.D. Gött. (2).
Nicol, J., B.A. Camb., B.Sc. (8).
Oschwald, U. A., B.A. (11).
Owen, D., B.A. Camb., D.Sc. (10).
Polson, W., M.A., B.Sc. Aberd. (12).
Skinner, S., M.A. Camb. (11).
Starling, S. G., B.Sc., A.R.C.S., A.I.E.E. (12).
Tarrant, A. G., B.Sc., A.R.C.S. (11).

Vinycomb, T. B., M.A. R.U.I. (13).

Physiology

Symes, W. L., M.R.C.S. (9).

Semitic Languages

Büchler, A., Ph.D. Leip. (6).
Daiches, S., Ph.D. Leip. (6).
Hirschfeld, H., Ph.D. Stras. (S. (Epig. and Hebrew and S.) (U., 6).
Marmorstein, A., Ph.D. Heid. (Bible and Rabbinics) (6).

Veterinary Hygiene

Wooldridge, G. H., F.R.V.S. (9).

Veterinary Pathology and Bacteriology

McFadyean, Sir John, LL.D., M.B., C.M., B.Sc. Edin., M.R.C.V.S. Prof. (9).

Zoology

Cunningham, J. T., M.A. Ox., F.Z.S. (8).
Leigh-Sharpe, W. H., B.Sc. (11).

Medicine

Bacteriology

Nabarro, D. N., B.Sc., M.D., D.P.H., F.R.C.P. (25).

Diseases of Children *

Barrington-Ward, L. E., M.Ch. Edin., F.R.C.S. (25).
Colman, W. S., M.D., F.R.C.P. (25).
Frew, R. S., M.D. Edin. (25).
Hutchison, R., M.D., C.M. Edin., F.R.C.P. (25).
Lane, Sir W. A., Bart., C.B., M.S., M.B., F.R.C.S. (25).

Laryngology, Oto-Rhino- *

Dundas-Grant, Sir J., K.B.E., M.D., C.M., M.A. Edin., F.R.C.S. (24).

Medicine *

Holmes, G. M., C.M.G., C.B.E., M.D., B.Ch., B.A.O., B.A. Dub., F.R.C.P. (Med. and *Ophthalmology*) (26).
Russell, J. S. R., M.D., C.M. Edin., F.R.C.P. Prof. (26).
Stewart, T. G., M.D., Ch.B. Edin., F.R.C.P. (26).
Taylor, J., C.B.E., M.A., M.D. Edin., F.R.C.P. (26).

Neurology *

Howell, C. M. H., M.A., D.M. Ox., F.R.C.P. (26).

Ophthalmology, v. also Med. *

Fisher, J. H., M.B., B.S., F.R.C.S. (27).
Flemming, P., M.D., B.S., F.R.C.S. (27).
Holmes, G. M., C.M.G., C.B.E., M.D., B.A., B.A.O., B.A. Dub., F.R.C.P. (27).
Hudson, A. C., M.A., M.D., B.Ch. Camb., F.R.C.S. (27).
Lang, B. T., B.A. Camb., F.R.C.S. (27).
Worth, C. A., F.R.C.S. (27).

Pathology

Inman, A. C., M.A., M.B., B.Ch. Ox. (24).

Surgery *

Addison, O. L., M.B., B.S., F.R.C.S. (25).
Armour, D. J., C.M.G., M.B., B.A. Tor., F.R.C.S. (26).
Gray, H. T., M.A., M.Ch. Camb., F.R.C.S. (25).
Waugh, G. E., B.A. Camb., M.D., B.S., F.R.C.S. (25).

* V. also Medical Schools' Teachers, p. 154.

GENERAL INFORMATION

[(*a*) Principal. (*b*) Subjects in which recognized. (*c*) Number of students.]

1. UNIVERSITY OF LONDON, GOLDSMITHS' COLLEGE, New Cross, S.E.14. Incorporated in the Univ. Warden, and Principal of the Training Dept.—T. Raymont, M.A. Vice-P'pals. of Training Dept.—F. H. C. Brock, M.A., and Miss C. C. Graveson, B.A.

Opened in 1905 in buildings presented by the Goldsmiths' Company, whose "Technical and Recreative Institute" had been carried on therein since 1891. Open to both sexes. Recognized Teachers—10 (v. *supra*)—Art, Classics, Educn., Engl., Hist., Maths.; others—62.

Training Department. Recognized by Bd. of Educn. as a Training Coll. (Elem.). Ordinary course—2 yrs., or for B.A. (Pass) or B.Sc. (General) degree —3 yrs. Lectrs. and Instrs.—33. *Annual fee* for tuition with mid-day meal: £21. Hostels provide accommodation for nearly all the women and many men students.

School of Art (Day and Evening). Headmaster and 8 Assts. *Fees*: Day, £5 to £15; Evening, 10s. to 30s., per session.

Engineering and Building Dept. (Evening). Carried on at expense of L.C.C. and only temporarily retained at the Coll. Courses: College Certif. and Diploma; C.G.I. examns.; Engineering Degree (5 yrs.).

2. BATTERSEA POLYTECHNIC, Battersea Park Rd., S.W.11. (*a*) R. H. Pickard, D.Sc., F.R.S. (*b*) Chem., Engin. (Civ., Elec., Mech.), Maths., Music, Physics. (*c*) 2833.

4. CITY OF LONDON COLLEGE, White St., Moorfields, E.C.2. Director —J. W. Ramsbottom, M.A., M.Com. (*b*) Law (Comml. and Merc.). (*c*) Day, 286; Evg., 2295.

5. FINSBURY TECHNICAL COLLEGE, Leonard St., Finsbury, E.C.2. *Dean*—A. J. Hale, B.Sc., F.I.C. (*b*) Elec. Engin., Physics. (*c*) Day, whole-time, 70.

6. JEWS' COLLEGE, Queen Sq. House, Guilford St., W.C.1. (*a*) A. Büchler, Ph.D. (*b*) Hebrew, Semitics. (*c*) 31.

7. NORTHAMPTON POLYTECHNIC INSTITUTE, St. John St., E.C.1. (*a*) S. C. Laws, M.A., M.Sc. (*b*) Engin. (Elec., Mech.), Maths., Chem., Physics, Surv. (*c*) 2178.

8. NORTHERN POLYTECHNIC INSTITUTE, Holloway Rd., N.7 (*a*) R. S. Clay, D.Sc., B.A. (*b*) Bot., Chem., Geol., Maths., Physics, Zool. (*c*) 2471.

9. ROYAL VETERINARY COLLEGE, Gt. College St., Camden Town, N.W.1. (*a*) Sir John McFadyean, M.B., C.M., B.Sc., LL.D., M.R.C.V.S. (*b*) Biol., Chem., Vet. Anat., Vet. Hyg., Vet. Path. and Bact., Physiol. (*c*) 127.

10. SIR JOHN CASS TECHNICAL INSTITUTE, Jewry St., Aldgate, E.C.3. (*a*) C. A. Keane, D.Sc., Ph.D., F.I.C. (*b*) Chem., Maths., Physics. (*c*) 950.

11. CHELSEA POLYTECHNIC, Manresa Rd., Chelsea, S.W.3. (*a*) S. Skinner, M.A. (*b*) Bot., Chem., Geol., Maths., Metall., Music, Physics, Zool. (*c*) Day, 694; Evg., 1764.

12. WEST HAM MUNICIPAL COLLEGE, Romford Rd., West Ham, E.15. (*a*) T. C. Baillie, M.A., D.Sc. (*b*) Chem., Engin. (Elec., Mech.), Maths., Physics, Surveying. (*c*) Day, 320; Evg., 1506.

13. WOOLWICH POLYTECHNIC, William St., Woolwich, S.E.18. (*a*) A. F. Hogg, M.A., F.C.S. (*b*) Chem., Engin. (E., M.), Maths., Phys. (*c*) 900.

14 MARIA GREY TRAINING COLLEGE, Salusbury Rd., Brondesbury, N.W.6. (*a*) Miss K. L. Johnston, M.A. (*b*) Educn. (*c*) 147.

15. ST. MARY'S COLLEGE, 34 Lancaster Gate, W.2. (*a*) Miss H. L. Powell. (*b*) Pedagogy. (*c*) 86.

16. BOROUGH ROAD COLLEGE, Spring Grove, Isleworth, Middlesex. (*a*) T. H. Miller, M.A., D.Sc. (*b*) Maths. (*c*) Resident, 139; non-resident, 3.

18. ROTHAMSTED EXPERIMENTAL STATION, Harpenden, Herts. *Director*—Sir John Russell, D.Sc., F.R.S. (*b*) Physics (in its application to Agric.). For research students only.

19. ROYAL ACADEMY OF MUSIC, Marylebone Rd., N.W.1. (*a*) J. B. McEwen, M.A., F.R.A.M. (*b*) Music. (*c*) 810.

20. ROYAL COLLEGE OF MUSIC, Prince Consort Rd., S. Kensington, S.W.7. *Director*—Prof. Sir Hugh P. Allen, M.A., Mus.D., F.R.C.M. (*b*) Music. (*c*) 700.

21. TRINITY COLLEGE OF MUSIC, Mandeville Place, W.1. *Director of Studies*—Prof. J. C. Bridge, M.A., Mus.D. (*b*) Educn. (Ped. as applied to Music), Theoretical M. subjects. (*c*) 700.

24. BROMPTON HOSPITAL FOR CONSUMPTION AND DISEASES OF THE CHEST, Fulham Rd., S.W.3. *Dean*—L. S. Burrell, M.A., M.D.; *Sub-Dean*—A. C. Inman, M.A., M.B. (*b*) Med., Oto-Rhino-Laryngology, Pathology.

25. HOSPITAL FOR SICK CHILDREN, Gt. Ormond St., W.C.1. *Dean*—W. J. Pearson, D.S.O., M.D., F.R.C.P. (*b*) Bact., Dis. of Child., Surg.

26. NATIONAL HOSPITAL FOR THE PARALYSED AND EPILEPTIC, Queen Sq., W.C.1. *Dean*—J. G. Greenfield, B.Sc., M.D. (*b*) Med., Neurology, Ophth., Oto-Rhino-Laryng., Surg. (*c*) 264.

27. ROYAL LONDON OPHTHALMIC HOSPITAL, City Rd., E.C.1. *Dean*—M. L. Hepburn, M.D., B.S., F.R.C.S. (*b*) Ophth. (*c*) 126.

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3 Demrs.

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Grantham, G. J., F.I.S.E. (Bldg. Constn.) Asst. Lectr.
Phythian, J. E., M.A. Lectr. (Italian Mural Painting).
1 Instr. in Drawing.

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Fraser, Sir D. D., K.B.E., M.Com. (H.).

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Drew, Kathleen M., M.Sc. Asst. Lectr.
Marsh, R. W., B.A. Camb. Res. Asst. (Mycol.).

Botany, Cryptogamic
Lang, W. H., M.B., C.M., D.Sc. Glas., F.R.S. Barker Prof.
Robinson, Wilfrid, D.Sc. Sen. Lectr.

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Robinson, R., D.Sc., F.R.S. (Organic C.) Prof.
Dixon, H. B., C.B.E., M.A. Ox., Ph.D. Prague, D.Sc., F.R.S. Hon. Prof.
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Smith, Norman, D.Sc.
Myers, J. E., O.B.E., D.Sc.
.....
Challenger, F., D.Sc Birm., B.Sc. Lond., Ph.D. Gott.
Campbell, C., D.Sc.
Lectrs.:
Bangham, D. H., M.A. Ox.
Core, A. F., M.Sc. (S.).
Henry, D. C., M.A. Camb.
Fairbrother, F., D.Sc.
Core, C. G., M.Sc. (H., S.).
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Baker, W., M.Sc. Asst.
Cavanagh, B., B.A. Ox., B.Sc. Lond. Asst.
Herbert, J. B. M., B.Sc. Asst.
Gaul, E. G., M.Sc. Senr. Lectr. (Agric. Chem.).

Chinese
Parker, E. H., M.A. Prof.

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Calder, W. M., M.A. Aberd., Ox. and Manc. Hulme Prof. of Greek and Lectr. in Christian Epigraphy.
Conway, R. S., Litt.D. Camb. and Dub., Dott. Univ. Padua, M.A. Manc., F.B.A., Hulme Prof. of Latin and Indo-Eur. Philol.
Anderson, W. B., M.A. Camb. and Manc., D.Litt. Aberd., Prof. (Imperial Latin)
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McLachlan, H., M.A., D.D. (Hellenistic Greek) Lectr.
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Johnson, S. K., B.A. Camb. Asst. Lectr.
Briggs, Helen M., M.A. ,,
Beare, William, B.A. Dub. ,,

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(H.), (S.) = Honorary, Special, Lectr.

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The Vice-Chancellor Prof.
Buckley, H. E., M.Sc. Asst. Lectr.

Dentistry, v. *infra*

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Daniels, G. W., M.A., M.Com. (Com. and Administn.) Prof.
Ashton, T. S., M.A. Senr. Lectr.
Orr, J., M.A. Glas. Sr. Lectr. (Agric. E.).
Marsh, C. H., M.Com. Asst. Lectr.

Economic History
..... Prof.

Education
Smith, H. Bompas, M.A. Ox., M.Ed. Prof.
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Eggar, Margaret E., N.F.U. Lectr.
Hindshaw, Winifred, M.A., M.Ed. Lectr.
Helm, J. H., B.A., LL.B. Camb. Lectr.
Ewing, Irene R. (Teachers of the Deaf) E. Ll. Jones Lectr.
Conway, Gladys, B.A. Liv. (Continuation School E.) Lectr.
Vaughan, Frances M., M.A. N.U.I. Lectr.
Clarke, Winifrid S. Lectr.
Jackson, Rev. S. F., M.A., Litt.D. Liv., M.A. Lectr.
Oppenheimer, Mary (Handwork and Drawing) Lectr.
Keighley, T., Mus.D. (Elementary E.—Singing) Lectr.
Borthwick, Phyllis M., M.Sc. Bris., B.Sc. Lond. Lectr.
Medical Officers and 2 Instrs. for Elem. E. Dept.

Egyptology
Peet, T. E., M.A. Ox. Lectr.

Electro-Chemistry, v. Physics

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Gerrard, H., M.Sc., A.M.I.E.E. Sen. Lectr.
Higham, J., M.Sc., A.M.I.E.E. Lectr.

Engineering, v. also Tech.
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Sandeman, E., M.Sc., M.I.C.E. Assoc. Prof.
Mason, C. M., M.Sc., A.M.I.C.E., A.M.I.Mech.E. Sen. Lectr.
Jones, Eric, M.Sc. Lectr.
Baker, H. W., M.Sc. Lectr.
Frith, J., M.Sc., M.I.E.E. Special Lectr.
Mucklow, G. F., M.Sc. Asst. Lectr.
Hay, J. B. M., B.Sc. Glas. Asst. Lectr.
Cornish, R. J., B.Sc. Asst. Lectr.

English Language and Literature
Sedgefield, W. J., M.A. Camb. and Manc., Litt.D. Melb. Smith Prof. (E. Lang.).
Charlton, H. B., M.A Leeds and Manc. Taylor Prof. (E. Lit.).
Herford, C. H., Litt.D. Camb. and Manc. Hon. Prof.
Wright, J. D., M.A. Senr. Lectr.
Harmer, Florence, M.A. Camb., B.A. Lond. Lectr.
Waller, R. D., M.A. Asst. Lectr.
Partridge, E., M.A. Queensland, B.Litt. Ox. Asst. Lectr.

French Language and Lit.
Kastner, L. E., M.A. Camb. and Manc., Litt.D. Camb. Prof.
Orr, J., B.Litt. Ox., L. ès L. Paris, M.A. Prof. (F. Language).
Marks, J , M A. Lectr.

(H.), (S.) = Honorary, Special, Lectr.

Valette, Andrée Lectr.
Fawtier, R., Dr. ès L., Ag. d'Hist. Lectr.
Crump, Phyllis E., M.A. Lond. Lectr.

Asst. Lectrs. :
Arnold, I. D. O., B.A. Wales
MacInnes, W. A., M.A. Glas.
Cossard, E. A. A., B. ès L. Bordeaux

Geography [Reader.
Barker, W. H., B.Sc. Lond.
Curnow, Irene J., B.A. Lond. Asst. Lectr.
Fitzgerald, W., B.A. Liv. Asst. Lectr.

Geology, Palæont., and Petrol.
Jones, O. T., M.A. Camb., D.Sc. Wales, M.Sc. Manc. Prof.
Dawkins, Sir Wm. Boyd, M.A., D.Sc. Ox. and Manc., F.R.S. Hon. Prof.
Straw, S. H., M.Sc. Lond. Lectr.
Williams, N. T., B.Sc. Wales, M.I.Min.E. (*Mining*) Lectr.
Andrew, G., B.Sc. Asst. Lectr.
Morton, E., M.Sc. Asst. Lectr. (Applied G.).

German and G. Philology
Johannson, A., M.A. Dorpat and Manc. Henry Simon Prof.
Halliday, F. W., M.A. Lectr.
Lloyd, M. D. I., M.A. Wales Lectr.

Hebrew, v. Semitic

Histology, v. Physiol., Med. (Path.)

History, v. also Econ., Palæog., Theol.
Tout, T. F., M.A. Ox. and Manc., D.Litt. Durh., Litt.D. Manc. and Liv., LL.D. Edin., F.B.A. Hon. Prof.
Tait, J., M.A., Litt.D., F.B.A. Hon. Prof.
Powicke, F. M., M.A. Ox. and Manc. (Mediæval) Prof.
Neale, J. E., M.A. Liv. (Modern H.) Prof.
Atkinson, D., B.A. Ox. (Ancient). Reader.
Higham, C. S. S., M.A. Camb. (also Lectr. in *Military* H.) Reader (Modern H.).
Higham, Florence M. G., M.A., Ph.D. (S.).
Fiddes, E., M.A. Camb., Aberd. and Manc. (Roman History) (S.).
Dunlop, R., M.A. (Irish History) (S.).
Fawtier, R., Dr. ès L. (French) Lectr.
Petch, J. A., M.A. Ox. Asst. Lectr.
Treharne, R. F., M.A., Ph.D. Asst. Lectr.

Italian Studies
Rébora, P., D.Litt. Turin Prof.

Law, v. also Acc., Railway
Eastwood, R. A., LL.D. Prof.
Oldfield, Sir Francis du Pré Prof. (Jurispr.).
Easton, J. M., M.A. Ox. Lectr.
Jolly, J. C., B.A. Camb. Lectr.
Walmsley, A., LL.B. Lond. Lectr.
Hedges, R. Y., LL.B. Asst. Lectr.

Mathematics, v. also Tech.
Milne, E. A., M.A. Camb. Beyer Prof. (Applied M.).
Mordell, L. J., B.A. Camb., M.Sc., F.R.S. Fielden Prof. (Pure M.).
Child, J. M., B.A. Camb., B.Sc. Lond. Lectr.
Eagle, Albert, B.Sc. Lond., A.R.C.S. Lectr.
Bailey, W. N., M.A. Camb., M.Sc. Lond. Lectr.
Walmsley, C., M.A. Camb. Asst. Lectr.
Marraine, F. G. G. A., B.A. Camb. Asst. Lectr.
Withington, Doris, M.Sc. Lecture Asst.

(H.), (S.) = Honorary, Special, Lectr.

Medicine, v. *infra*

Metallurgy and Metallography, v. also Tech.

Thompson, F. C., B.Sc. Lond., D.Met. Sheff. Prof.

O'Neill, H., M.Met. Sheff., M.Sc. Lectr.

Jones, E. O., B.Sc. Lond., A.R.S.M., A.I.M.M. Asst. Lectr.

Military Organization and Tactics, v. also Hist.

Mathews, Bt.-Major S., M.C. (H.).

Mining, v. Geol.

Music, v. also Physics (Acoustics)

Brodsky, A., Mus.D. Lectr.

Keighley, T., Mus.D. Lectr.

Wilcock, A. W., Mus.D. Lectr.

Palæography [Reader.

Little, A. G., M.A. Ox., F.B.A.

Philology, v. Classics, German

Philosophy, v. also Psych., Theol.

Stocks, J. L., D.S.O., M.A. Ox. Sir S. Hall Prof.

Alexander, S., M.A. Ox. and Manc., Litt.D. Lond. and Liv., LL.D. Birm. and St. And., D.Litt. Ox. and Durh. Hon. Prof.

Roth, H. L., M.A., D.Phil. Ox. Lectr.

Physics, v. also Elec. and Tech.

Bragg, W. L., M.A. Camb., F.R.S., Nobel Laureate Langworthy Prof. of P. and Prof. of *Acoustics*.

Schuster, Sir Arthur, Sc.D. Camb., Ph.D. Heid., D.Sc., F.R.S. Hon. Prof.

Lobley, A. G., M.Sc. (Electro-Chem.) Reader.

Nuttall, J. M., M.Sc. Sen. Lectr.

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Dickson, E. C. S., B.A. Camb., Ph.D. Bonn. Sen. Lectr.

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Brentano, J. C. M., D.Sc. Mun. Lectr.

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Newbold, A. A., B.Sc. Lond.

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Ritchie, A. D., M.A. St. And., B.A. Camb. Lectr. (Physiol. Chem.).

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Linford, Hilda M., M.B., Ch.B. Demr.

Willmer, E. N., B.A. Ox. Demr.

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Diggle, F. H., O.B.E., F.R.C.S.

Langley, G. J., M.B.E., M.D., B.S. Lond.

Bramwell, J. C., M.D. Hon. Asst. Lectr. (Experimental. P.).

Psychology [Prof.

Pear, T. H., B.Sc. Lond., M.A.

Thouless, R. H., M.A., Ph.D. Camb. Sr. Lectr.

Wyatt, Stanley, M.Sc., M.Ed. (S.).

Railway Law

Turner, H. P., M.A., LL.M. Lectr.

(H.), (S.) = Honorary, Special, Lectr.

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Berry, R. G. Lectr.
Brooks, J. C. Lectr.
Halliwell, D. Lectr.
Merrett, E. F. Lectr.

Russian [Sir W. Mather Prof.
Trofimov, M. V., M.A. Pet.

Semitic Langs. and Lit.
Canney, M. A., M.A. Ox. (Prof. of Bibl. Crit.) Prof.
Eltoft, H. C. R., B.A. Ox. and Manc. Asst. Lectr.

Spanish [Reader
Rees, J. W., M.A. Ox., B.A. Wales

Statistics [Asst. Lectr.
Walmsley, C., M.A. Camb.

Technology, v. *infra*

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Peake, A. S., M.A., D.D. Ox., D.D. Aberd., B.D. (Bibl. Crit.) Rylands Prof.
Farquhar, J. N., M.A., D.Litt. Ox., B.D. (Comp. Religion) Prof.

Lectrs. :
Mackintosh, R., B.D. Edin., M.A., D.D. Glas. (Philos. of Rel.).
Parsons, R. G., M.A. D.D. Ox. (Bibl. Crit.).
Cheetham, F. P., M.A. Camb. Lectr. (Bibl. Crit.).
Hirst, E. W., M.A. Lond., B.Sc. Ox. (Christian Ethics)

Lectrs. in Hist. of Doctrine :
Mumford, A. H., B.A. Lond., B.D. Edin.
Brewis, J. T., B.A., B.D.
Townsend, H., M.A. (R.U.I.), D.D. Lond.
Grieve, A. J., M.A. Ox., D.D. Lond. Lectr. (Early Church Hist.).

Veterinary, v. *infra*, Bacteriology and Preventive Med.

Zoology
Hickson, S. J., M.A. Camb., D.Sc. Lond., D.Z. and Bot. Gron., LL.D. Edin., F.R.S. Beyer Prof.
Thomson, J. Stuart, Ph.D. Berne, M.Sc. Sen. Lectr
Smith, K. M., M.Sc., A.R.C.S. Sen. Lectr. (Agric. Entom.).
MacGill, Elsie I., M.Sc. Res. Asst. (Entom.).
Lectrs. :
Lapage, G., M.Sc., M.B., Ch.B.
Wardle, R. A., M.Sc. (Econ. Z.).

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics
Wilson, S. R. (v. Physiol.) Lectr.

Bacteriology, v. *infra*, Bact. and Prev. Med.

Cancer Research (Swindells Lab.)
White, C. P., M.A., M.D. Camb., F.R.C.S. (H.) and Dir. of Lab.

Children, Diseases of [Lectr.
Lapage, C. P., M.D., F.R.C.P.

Children, Surgical Diseases of
Rayner, H. H., M.B., Ch.B., F.R.C.S. (also in Clin. Surgery) Lectr.

Clinical Investigation
Roberts, W. M., M.Sc., M.D. Lectr. & Dir. of the Lab.

Dermatology
Lancashire, G. H., M.D. Bruss., M.R.C S., L.R.C.P. Lectr.
Dyson, W., O.B.E., M.D. (also Hon. Spl. Lectr. in Path. of the Skin) Asst. Lectr.

Ear, Throat, and Nose, Diseases of the
Sewell, D. L., M.B., B.S. Lond. (Ear) Lectr.
Westmacott, F. H., C.B.E., B.Sc., F.R.C.S. (Throat and Nose) Lectr.

Forensic M., v. Path.

Hygiene, v. Bact. and Prev. Med.

Infectious Diseases [(C.).
Sutherland, D. S., M.D. Glas.

Materia Med., Therap., and Pharmacy
Wild, R. B., M.D. Lond., M.Sc., F.R.C.P. Leech Prof.
Grier J., M.Sc.
Sen. Lectr. (Pharmaceutics).
Leech, E. B., M.D. Camb., F.R.C.P.
Lectr. (Pharmacol. & Therap.)
Roberts, Ivy, M.Sc. (Pharm. and Pharm. Chem.) Asst. Lectr.
Rawsthorne, F., L.D.S. (Dent. M.M.) Lectr.
Bullock, K., M.Sc. Demr.

Medicine, Clinical
Ramsbottom, A., M.D., D.P.H., F.R.C.P. Prof.
Brockbank, E. M., M.D., F.R.C.P. Lectr.
Tylecote, F. E., M.D., D.P.H., F.R.C.P. Lectr.
Melland, C. H., M.D. Lond., B.Sc., F.R.C.P. Lectr.
Core, D. E., M.D. (also in Neurology) Lectr.
Oliver, T. H., M.D. Lectr.

Medicine, Systematic
Moore, F. Craven, M.D., M.Sc., F.R.C.P. Prof.

Mental Diseases
Orr, D., M.D., C.M. Edin. Lectr.

Neurology, v. Med., Clin.

Obstetrics and Gynæcology
Shaw, W. Fletcher, M.D. Prof.
Fothergill, W. E., M.A., B.Sc., M.D. Edin. Clin. Prof.
Dougal, D., M.D. Lectr.
Lacey, F. H., M.D. Hon. Lectr.

Ophthalmology
McNabb, H. H., M.D. Lectr. (C.).
Wharton, J., M.D. Camb. (C.).
Bride, T. M., M.D. (C.).

Pathology and Path. Anat., v. also Derm.
Dunn, J. S., M.A., M.D. Glas. Procter Prof.
Anderton, W. B., M.B. Lond. (P. and Forensic M.)
Lectr. & Curator of Museum.
Duguid, J. B., M.B., Ch.B. Aberd. (Morbid A. and Histology) Lectr.
Loveday, G. E., M.A., M.B., B.C. Camb. (Clin. P.) Lectr.
Susman, W., B.A., M.D. Ont. Asst. Lectr.
Kershaw, J., L.D.S. Demr.
Polson, C. F., M.B., Ch.B., Birm. Demr.

Pharmacy, etc., v. Mat. Med.

Radiology
Barclay, A. E., O.B.E., M.D. Camb. Lectr.

Surgery, Clinical, v. also Children's Diseases
Burgess, A. H., M.B., M.Sc., F.R.C.S. Prof.
Roberts, C., M.B., B.S. Lond., F.R.C.S. Lectr. and Asst.
Buckley, J. P., M.A., M.D., B.C. Camb., M.B., M.S. Lond., F.R.C.S. Lectr.
Rayner, H. H., M.B., Ch.B., F.R.C.S. Lectr.

Surgery, Practical
Roberts, C., M.B., B.S. Lond., F.R.C.S. Lectr.

Surgery, Systematic
Telford, E. D., M.A., B.C. Camb., F.R.C.S. Prof.
Hey, W. H., M.B., Ch.B., F.R.C.S. Lectr. and Asst.

Surgical Pathology Reader.
Ray, J. H., M.B., Ch.M., F.R.C.S.
Wrigley, P. R., F.R.C.S. Lectr.
Wright, G., M.B., Ch.B. Edin., F.R.C.S. Lectr.

Therapeutics, v. Mat. Med.

(C.) = Clinical Lectr.

Tuberculosis
Marsden, R. W., B.Sc., M.D., D.P.H. Hon. (C.).

Vaccination
Chisholm, Catherine, B.A., M.D. Lectr.

Venereal Diseases
Macalpine, J. B., M.B., Ch.B. F.R.C.S. Instr. (C.).
Reid, W. J. S., M.A., M.D. Aberd. Instr. (C.).
Whitehead, Gordon, M.B., Ch.B. Instr. (C.).
Wilson, A., F.R.C.S. Instr. (C.).
Gibson, R., M.D. Edin. Instr. (C.).

Dentistry

Lectrs.:
Hutchinson, A. C. W., B.D.S., L.D.S. (Mechanics and Prosthetics).
Houghton, E., L.D.S. Eng. (Operative Surgery).
Headridge, D., L.D.S. Eng. (Anatomy and Physiology).
Thompson, Prof. (v. Met.).
Hughes, T. Martin, M.R.C.S., L.R.C.P., L.D.S. Eng. (Orthodontics).
Simms, H., L.D.S. Eng., M.D. (Path. and Surg.).
Wild, Prof. (v. Med., Mat. Med.).
Rawsthorne, F., L.D.S. (Mat. Med.).
Dunn, Prof. (v. Path.) (Bacteriology).
Gibson, S. K., L.D.S. (Histol.) Demr.

Bacteriology and Preventive Medicine (v. also Path.)

Topley, W. W. C., M.A., M.D. Camb., M.Sc., F.R.C.P. (Prof. of B. and Dir. of P.H. Lab.) Prof.
Sidebotham, E. J., M.A., M.B. Camb. Hon. Lectr. in P.H.
Sellers, A., M.D. Edin., D.P.H. Hon. Research Asst.
Nutt, Muriel M., M.A. Camb. Demr. in Bact.
Heap, H., M.Sc. (San. and Bact. Chem.) Lectr.
Wilson, G. S., M.D., B.S., D.P.H. Lectr. (Bact.).
Lovell, R., M.R.C V.S., D.V.S.M. Demr. in Bact.
Bardsley, Doris A., M.Sc. Research Asst.

Factory Hygiene
Legge, Sir Thomas, M.A., M.D. Ox., D.P.H. Camb. Lectr.

Public Health Administration
Butterworth, J. J., M.D., D.P.H. Lectr. in Hygiene and A.
Brindley, A. E., M.D. Lond., B.Sc., D.P.H. Lectr.

Sanitary Engineering, see under Technology

School Hygiene [Lectr.
Young, M., M.D. Edin., D.P.H.

Vet. Hygiene
Woods, W., F.R.C.V.S. Lectr.

Vital Statistics
Scholefield, E. H., M.B., Ch.B. Ox., D.P.H. Lectr.

Technology

Jones, B. Mouat, M.A. Ox., Principal of the College of Tech. and Dean of the Faculty.

Architecture and Building, v. *supra*

Chemistry, Applied
Pyman, F. L., Ph.D. Basle, D.Sc., F.I.C., F.R.S. Prof. of Technol. C.
..... Assoc. Prof.

Lectrs.:
Grant, J., M.Sc.Tech., F.I.C.
McCulloch, Andrew, A.I.C. (Fuels).

(C.) = Clinical Lectr.

Walker, T. K., M.Sc., Ph.D., F.I.C. (Fermentation).
Radcliffe, L. G., M.Sc.Tech., F.I.C.
Wood, J. K., D.Sc., F.I.C. (Physical C.).

Asst. Lectrs. :
Hibbert, Eva, M.Sc.Tech.
Craven, May B., M.Sc.Tech.
Hancock, A., M.Sc. Tech., F.I.C.
Chadwick, Marion, M.Sc. Tech.
Hepburn, G. G., B.Sc. St. And., Ph.D. Basle Spl. Demr.
6 Demrs.

Dyeing, Bleaching, and Printing and Paper Manuf.
Huebner, J., M.Sc.Tech., F.I.C. Lectr.
Rowe, F. M., D.Sc. Leeds, F.I.C. Lectr.

Engineering, Electrical
Walker, Miles, M.A. Camb., D.Sc. Lond., M.I.E.E. Prof.

Lectrs. :
Langton, J. L., M.Sc., M.I.E.E.
Moore, A. E., M.Sc.Tech., M.I.E.E.
Clayton, A. E., D.Sc. (Eng.) Lond., A.M.I.E.E.

Asst. Lectrs. :
Glynne, A., M.A. Camb.
Shelley, H. J., B.Sc.
Thomsett, B., B.Sc. Lond.
1 Demr.

Engineering, Mechanical
Stoney, G. G., M.A.I. Dub., D.Sc. Durh., C*, M*, E*, F.R.S. Prof.

Lectrs. :
Popplewell, W. C., M.Sc., c*
Petrie, P. T., M.Sc. Leeds, c*, m*
Smith, Dempster, M.B.E., M.Sc.Tech., M*
..... (Eng. Drawing).
Boswall, R. O., B.Sc.Eng. Lond., M.Sc.Tech., m*, A.F.R.Ae.S.
Anderson, R. M., A.R.T.C. Glas., M.Sc.Tech.
Threlfall, H., M.Sc.Tech., F.R.C.S.I.
Ferguson, R. M., M.Sc., m*.

Asst. Lectrs. & Demrs. :
Edmondson, A. R., M.Sc., c*, m*
Bevan, T., M.Sc.Tech.
Carrington, H., B.Sc., M.Sc.Tech., m*.
Oakden, J. C., M.A. Camb.

Engineering, Sanitary
Coleman, G. S., D.Sc. (Eng.) Lond., c*, A.M.Inst.Mun. and Cy.E. Lectr.
Flood, G. M., B.Sc. (Eng.) Cape Town, c*, A.M.I.Struct.E., A.M.Inst.M. and Cy.E., M.R.San.I. Asst. Lectr.
Chadwick, A. S., M.R.San.I. Asst. Lectr.
1 Asst. and Demr.

Languages (Modern)
Grundy, W. H. R., B.A. Lectr.

Mathematics
Prescott, J., M.A., D.Sc. Lectr.
Bowman, F., M.A. Camb., M.Sc.Tech. Lectr.
Lowry, H. V., B.A. Camb. Lectr.

Asst. Lectrs. :
Barratt, W. S., A.R.C.S.I., A.I.C.
Tilsley, H., B.Sc. (Eng.) Lond.

Metallurgy & Assaying
Rhead, E. L., M.Sc.Tech., F.I.C., M.Am.I.M.E. Lectr.
Mohn, G., M.Sc.Tech. Demr.

Physics
Adamson, A., M.Sc.Tech., A.R.C.S. Lectr.
Palmer, L. S., M.Sc., Ph.D. Bris. Lectr.
Mercer, H. N., M.A. Tor., B.Sc. Lond. Asst. Lectr.
Anderson, W., B.Sc. Glas. ,, ,,
Cockcroft, J. P., M.Sc. (Elect. Chem.) Demr.

C*, E*, M* = M.I.C E., M.I.E.E., M.I.Mech.E. ; c*, e*, m* = A.M.I.C.E., etc.

Printing and Photographic Tech.
Gamble, C. W., O.B.E., M.Sc.Tech. Lectr.

Textile Manufacture
..... [Chief Lectr.
Winterbottom, J., M.Sc.Tech. (Spinning) Lectr.
Cadness, H. Spl. Lectr. (Design).
Hanton, W. A., M.Sc.Tech. (T. Engin.) Lectr.
Booth, J. H., B.Com. Spl. Lectr. (Yarn and Cloth Markets).
Dust, Emily R. (Design) Lectr. 1 Demr.

Extra-Mural Department

Secy.—The External Registrar of the Univ.

ASSOCIATED COLLEGES

THE COLLEGE OF TECHNOLOGY originated in the Mechanics' Institution, founded in 1824, and developed between 1879 and 1912 under the direction of J. H. Reynolds as the Technical School (1883) and Municipal School of Technology (1901). In 1903 were completed, with the help of benefactions from the estate of Sir Joseph Whitworth, buildings covering 7300 sq. yards in the centre of the city and worth with their equipment £400,000. It became connected with the Univ. of Manchester in 1905 through the constitution of a Faculty of Technology, the greater part of the work of which is conducted in the College, whose Principal is Dean of the Faculty. The work of the College includes advanced study and research in the subjects specified in the above list of Professors and Lecturers and hydraulic experimental work, motor-car engineering, and india-rubber technology.

COLLEGES recognized for External Lectures in Theology:

BAPTIST COLLEGE, EGERTON HALL, HARTLEY PRIMITIVE METHODIST COLLEGE, MORAVIAN COLLEGE, Fairfield, UNITARIAN COLLEGE, and UNITED METHODIST COLLEGE at Manchester; LANCASHIRE INDEPENDENT COLLEGE, Whalley Range; WESLEYAN COLLEGE, Didsbury.

Recognized for instruction in Maths., Physics, Chem., and Biol. up to Interm. standard for B.Sc. and B.Sc.Tech.: the HARRIS INSTITUTE, Preston.

For third year of B.Sc.Tech. course in Mining: the CAMBORNE SCHOOL OF METALLIFEROUS MINING.

GENERAL INFORMATION

Owens College, named after a Manchester merchant who bequeathed £96,000 for its foundation, was opened in 1851. The Manchester School of Medicine was united with it in 1872. The Charter of 1880 by which the Victoria Univ. was founded established a federal constitution and made Owens a constituent Coll. of the Univ. Subsequently Univ. Coll., Liverpool, and Yorkshire Coll., Leeds, were admitted as constituent Colls. A new Charter was issued on July 15, 1903, reconstituting the Univ. under the name of the Vict. Univ. of Manchester and freeing it from liability to admit or remain in association with any Coll. other than Owens, and on June 24, 1904, the Act for the incorporation of Owens Coll. with the Univ. was passed. The Univ. Press was established in 1902.

In 1905, on the establishment of the Faculty of Technology, the work of Univ. standard at the Municipal School (now College) of Tech. was included in the Univ.

Most of the buildings, arranged in two quadrangles, and erected from time to time during the past 50 years, are situate in the city. The athletic ground (30 acres) is at Fallowfield, about 1½ miles distant.

LIBRARIES. The main (Christie) library (over 200,000) includes the private collections of Profs. Freeman and Stanley Jevons and Dr. Christie. Scientific periodicals are taken in by the Univ. in co-operation with the Manchester Literary and Philosophical Society, so that between them all the most important are available for both. The Manchester Medical Society's Library (47,000) is housed in the Medical School, where it is available for students. The John Rylands (310,000) includes the Althorp Library and the Crawford collection of MSS. It contains one of the most important collections of early printed books in existence. The ancient Chetham Library (100,000) has valuable mediæval MSS. and printed books of seventeenth and eighteenth centuries and a collection of volumes dealing with local history. The Municipal Reference Library (200,000) is valuable for more recent books and periodicals, and in connexion with it a Technical and Science Library (40,000) has recently been formed.

LABORATORIES, ETC. Ample equipment for advanced study and research in all departments; special provision for Electro-Technics, Economic Zoology (including Agric. Entom.) and Botany, Radio-activity, Ionization of Gases, Colloids, and Cancer. The Fielden School is organized mainly for demonstration, training, and research in Educn. The Manchester *Museum*, forming part of the Univ. buildings, and containing among other special depts. the Flinders Petrie Egyptol. Collection, is utilized for Univ. teaching in Zool., Bot., and Geol.; it is also used for systematic instruction of Elem. school children. Available for clinical instruction are 4 general *Hospitals*, 1 Dental and 7 other special hospls. including the Christie Cancer Pavilion. The Howard Estate *Observatory* in the Peak District is for investigation of the Upper Atmosphere.

FACULTIES. (1) Arts [including School of Architecture]; (2) Science; (3) Law; (4) Medicine [including Departments of Dental Science, Pharmaceutics, and Bacteriology and Preventive Medicine and Pub. Health]; (5) Music; (6) Commerce; (7) Theology; (8) Technology (provided by the Municipal College of Technology); (9) Education [training for work in Secondary, Elementary, and Day Continuation Schools, in Schools for the Deaf, and with Young Children]. Deans of Faculties: (1) Prof. Powicke (History); (2) Prof. W. L Bragg (Physics); (3) Prof. Oldfield; (4) Prof. Stopford (Anatomy); (5) Dr. J. K. Pyne; (6) Prof. Daniels; (7) Dr. H. M'Lachlan; (8) Principal Mouat-Jones; (9) Dr. S. Frank Jackson.

MATRICULATION. See Appendix XXI.

INDIAN STUDENTS. Adviser, J. K. Wood, D.Sc. Applications from Indian students for registration should be received, with references, as to character and educational qualifications, before July 20.

DEGREE COURSES. 3 yrs. (graduates of other approved Univs., 2 yrs.)—B.A., B.Sc., LL.B., Mus.B., B.Com., B.D. (after Interm. courses in Arts), B.Sc.Tech.; 5 yrs.—B.A. (Hons. in Archit.), B.D.S.; 6 yrs.—M.B., Ch.B. The B.Com. course can be completed by attendance on evening lectures.

Honours students of modern foreign languages may be permitted to count attendance on approved courses during one term at a foreign Univ. as equivalent to attendance at Manc.

Minimum attendance in the Univ. for graduation—3 yrs. Minimum attendance for Bachelorship in 2 Faculties—5 yrs.

HIGHER DEGREES. Open to Bachelors of 1 yr. standing—M.A., M.Sc. (2 yrs. if graduates of other Faculties), LL.M. (2 yrs.), Ch.M., M.D., M.D.S., M.Com., M.Sc.Tech.; 2 yrs.—M.Ed.; 4 yrs.—Litt.D., D.Sc, LL.D., Mus.D., D.D.

Open to graduates of other approved Univs. through research in Manc. during 2 (non-graduates 3) yrs.—M.A., M.Sc., LL.M., M.Com., M.Sc.Tech., M.Ed (open only to graduates). Graduates of other approved Univs. of 4 yrs.' (D.D. 6 yrs.') standing who have obtained the degree of Master or one substantially equivalent thereto and spent 2 yrs. in study or research in Manc. may qualify for the Litt.D., D.Sc., LL.D., D.D.

The Ph.D. differs from the Litt.D. and D.Sc. in requiring a definite course of study, and is of a lower standard, though higher than the M.A., M.Sc., and M.Sc.Tech. (v. p. 17).

DIPLOMAS. Geog. (grads.), 1 yr. course; D.V.S.M., open to M.R.C.V.S. only, 12 mos.; Psych. Med. 1 yr., including 2 terms at the Univ.; D.P.H. 1 yr.; Teacher's (grads.), 1 yr.; L.D.S., 4 yrs.; Dp. Bact. (1 yr. post-grad.).

CERTIFICATES. Engin., 3 yrs.' course; Applied Chem., 3 yrs.; Archit., 3 yrs.; Mining; Factory or School Hygiene (subsequent to obtaining D.P.H.); Higher Commercial, 2 yrs. (grads. 1 yr.); Theol., 3 yrs.; Biblical Knowledge, 1 yr.; Tech. (Assoc. Coll. Tech.), 3 yrs.; Tech. (Distinction), 1 yr. after Cert. in Tech.; Photog. Tech., 2 yrs. Candidates for certificates are required, before entering on the course, to pass or obtain exemption from an entrance examn.

Certif. in Mining and the B.Sc.Tech. in Mining are accepted by Govt. in lieu of 2 out of 5 yrs.' practical experience for Mine Manager's Certif.

SPECIAL COURSES on Tuberculosis for Med. and Vet. practrs.

SCHOLARSHIPS, ETC., FOR GRADUATES. A considerable number are offered every year by the Univ., most of them reserved for its own graduates, but some—in Anatomy, £150; Chemistry, £100; Economics, £90; Engineering, two of £200 each; Diseases of Children, £100; History, £50; Physics, £175; Physiology, £90; Prev. Med., £300—are open to foreign students; others—in Industry and Comm., £100 (2); Cotton Industry, £80; History, £50—are open to British subjects who have graduated at other Univs. Honorary Research Fellowships and Research Studentships, entitling the holders to the use of facilities for research either free or at greatly reduced fees, are also awarded.

FEES. Matricn., £2. Tuition, per session, including Students' Union and Athletic Union fees: for B.A. course, 30 gs. (Hons. in Archit., first 3 yrs. 41 gs. per session, 4th and 5th yrs. 28 gs. per session); B.Sc., 31 to 41 gs. (Hons. in Maths., 30 gs.); M.B., Ch.B. (5 sessions), 150 gs., *plus* Hospl. fees, 77 gs.; LL.B. (3 sessions), 38 gs.; B.D., about 15 gs. (*plus* Registration fee of 3 gs. per session); B.Com., 20 gs.; Mus.B., about 20 gs.; B.D.S., 94½ gs., *plus* Hospl. fees, 175 gs.; L.D.S., 84½ gs., *plus* Hospl. fees, 135 gs.; B.Sc. Tech., £40-£60; Teacher's Dipl., £35. Examn. fees: Med., 32 gs., others (Interm. and Final) for first degrees about 6 gs. (B.Sc., 4 to 5 gs.). Graduation fees, 8 gs. (Doctorate 15 gs., except Ph.D. £5).

Research fees, 7 to 10 gs. per session in Arts, Commerce, and Law; Educn., 4 gs.; higher fees for other science students.

HOSTELS. For men: Hulme Hall (Warden), £60 to £100 (*for 27 weeks*); Dalton Hall (Principal), £108; St. Anselm's Hall (Warden), £70; Lancashire Independent College (Principal), £87. For women (122): Ashburne Hall (Warden), 64 to 70 gs.; Lees Hall (Warden) (both under Ashburne Hall Dele-

gacy); Langdale Hall (Warden), chiefly for women training students, whose fees are £32 : 13 : 4, private students £70; Ellis Llwyd Jones Hall (Warden), special hostel for students in training as teachers of the deaf, £70; St. Gabriel's Hall (Warden) (for Catholic women students), £55 to £65.

All PAST AND PRESENT MEMBERS of the Univ. are eligible for membership of the "Old Owensian Assocn.," which publishes periodically a register of members with occupations and addresses and a *Journal* (twice a year).

ADULT EDUCATION. The Committee for the organization of the Extra-mural work of the Univ. and the Joint Committee for Tutorial Classes are responsible for the provision of facilities for Adult Education at the Univ. itself, and at other Centres. Public Lectures, Univ. Extension Courses, Tutorial Classes for Workpeople, and other Classes for adult students are arranged, and Tutors and Lecturers are appointed.

PERIODICAL PUBLICATIONS. *Calendar* (Sept.), 3s.; *Prospectus of Advanced Studies*; *Examn. Papers*, 6d. to 1s. 6d. a set, by Faculties; *The French Quarterly*, 3s.; *Bulletin of John Rylands Library*; *Technology* (pub. at Coll. of Tech.); *Journal of Manc. Egyptian and Orient. Soc.*; Pubns. of Chetham Society, Manchester; Pubns. of Brit. Soc. of Franciscan Studies. Students' Pubns.: *The Serpent* (magazine), *The Circle* (Literary), *Science Fed. Journal*, *Medical School Gazette*. Departmental Prospectuses (April-May).

THE YEAR 1924–25

BENEFACTIONS. A. B. Potter, £2000; Miss Maud Clegg, £1000 for scholarship in History; Vulcan Boiler Co., £200 (Fellowship renewal); Brunner Mond & Co., £550 (renewal of grants for Physics and Chemistry); Mrs. Kessler, £100; Sir Adolphus Ward bequest, £1000 for History and English; General Electric Co. of U.S.A. and British Thomson-Houston Co., X-ray equipment; Mrs. Dorrington, £50 for prize in Classics; residuary estates of J. Phythian and Prof. S. H. Capper; Royal Botanical Society of Manc., £100 (renewal of grant for experimental grounds); Lewis's, Ltd., £200 for scholarships; special Treasury grant of £3500 for library; County Borough of Blackburn was included in list of Local Authorities giving grants to the Univ. (Total £14,000); Law Society, £800 (renewal of grant).

NEW BUILDINGS. Ashburne Hall extension, including Morley Library for Women Students.

NEW DEPARTMENTS, ETC. New Clinical Research Department at Royal Infirmary, laboratory room being provided by the Hospital Board and salary of Director (whole-time) by the Univ.; Advisory Departments in Agric. Chem. and Agric. Economics; Consultative Committee on Agric. Research.

CHANGES IN REGULATIONS. Honours course in Classics (Latin and Greek) reconstituted, in addition to the Hons. Schools of Greek and Latin; Higher School Certificate under certain conditions to admit students to advanced courses in Physics and Chemistry in lieu of ordinary first M.B. course; Regulations for Diploma in Vet. State Medicine revised; a third section (Geology, Geography, and either Botany or Zoology) added to Hons. Sch. of General Science.

RESIGNATIONS. Sir F. Adam, Chairman of Council; Prof. T. F. Tout; Prof. H. W. C. Davis, appointed Regius Prof. at Oxford, succeeded by J. E. Neale from Univ. College, London; Prof. Archibald Donald; Prof. G. R. Murray; Prof. J. J. Findlay (on termination of period of office as Fielden Prof

of Educn.); Prof. F. P. Slater; Phoebe Sheavyn; B. J. Ryrie, appointed Wernher Beit Prof. of Pathology at Cape Town; J. H. Dible, appd. Prof. of Pathology at Royal Free Hosp., Univ. of London; W. H. Wood, appd. Derby Prof. of Anatomy at Liverpool; B. I. Evans, appd. Prof. of Eng. Lit. at Southampton; Olive A. Wheeler, appd. Prof. of Educn. at Cardiff; W. J. Entwistle, appd. Prof. of Spanish at Glasgow. DEATHS: Prof. G. Unwin; Dr. Casartelli; A. Haworth; Dr. H. Clifford.

HONORARY DEGREES. LL.D.—The Duchess of Atholl, Lord Bradbury; Litt.D.—Sir Robert A. Falconer, Prof. Brentano; D.Sc.—Prof. A. S. Eddington, Dr. Niels Bohr.

OTHER DEGREES. B.A., 111; M.A., 24; Litt.D., 2; B.Sc., 157; M.Sc., 40; D.Sc., 2; LL.B., 5; LL.M., 1; M.B., Ch.B., 78; Ch.M., 1; M.D., 11; Mus.B., 3; B.Com., 27; M.Com., 3; B.D., 6; B.Sc.Tech., 50; M.Sc.Tech., 24; M.Ed., 1; Ph.D., 17.

STUDENTS. Full-time, total, 1802 (including women—665), preparing for a first degree, 1359 (women—532); graduates, 99 (w.—27). Part-time, undergraduates, 138 (w.—23); graduates, 27 (w.—5). Occasional, 102 (w.—20). In faculty of Medicine, 650 (w.—107); Technology, 263; other faculties, 1537 (w.—619). Evening class students, 296.

EXTRA-MURAL DEPARTMENT. Tutorial Classes, 36; one-year classes, 4. Bangor Summer School (1924), students 109, teachers 21. Summer School of post-grad. mathematics, students 32.

UNIVERSITY OF OXFORD

CHANCELLOR—Right Hon. GEORGE, VISCOUNT CAVE, D.C.L., Hon. Fellow of St. John's College.

HIGH STEWARD—Right Hon. EARL OF BIRKENHEAD, B.C.L., M.A., Hon. D.C.L. Merton and Wadham Colleges.

VICE-CHANCELLOR—J. WELLS, M.A., Warden of Wadham College.

REPRESENTATIVES IN PARLIAMENT (BURGESSES OF THE UNIVERSITY)—LORD HUGH R. H. CECIL, M.A., Hon. D.C.L. Hertford; Sir CHAS. W. C. OMAN, M.A. All Souls.

PROCTORS—W. T. S. STALLYBRASS, M.A. Brasenose; J. D. DENNISTON, M.A. Hertford.

ASSESSOR OF THE CHANCELLOR'S COURT—A. E. W. HAZEL, B.C.L. M.A. Jesus.

PUBLIC ORATOR—A. B. POYNTON, M.A. Univ.

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Celtic
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Corpus Prof.
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Lobel, E., M.A. Qu.
Research Student (Gk. Lit.)

Crystallography, Chem.
Barker, T. V., M.A., D.Sc. B.N.C.
Lectr.

Diplomatic
Poole, R. L., M.A. Magd. Lectr.

Divinity, v. Theology

Economics, v. also Pol. Econ.
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Reader.

Education [Reader.
Keatinge, M. W., M.A., D.Sc. Exe.
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Lectr. and Tutor to Women Students and Principal of the Women's Hostel.

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Engineering Science, v. also Surveying

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Taylorian Annual Lectr., 1925.

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Sidney Ball Lectr., 1925 ("Natural Instinct the basis of Social Institutions").

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MacKeith, M. H., D.M. Magd. Demr.
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Seddon, C. N. Lectr.

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Roberts, S. G. Lectr.

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Peel, W. R., M.A. Ball. Lectr. in Agr.

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Doyne, H. C., M.A. Trin. Demr.
Lord, Leslie, M.A. Linc. Demr.

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Farm Acctcy. and Loc. Govt.
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Thring, D. T., Hon. M.A. Mert.

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James, W. E. C., B.A. Magd. Lectr.

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Bevan, E. R., O.B.E., M.A., Hon. D.Litt. New Coll.

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Lock, W., D.D. Keb.
Margaret Prof.
Rawlinson, A. E. J., B.D., M.A. Ch. Ch.
Bampton Lectr. (1926).

Eccles. History [Reg. Prof.
Watson, E. W., D.D. Ch. Ch.

Exegesis [Dean Ireland's Prof
Turner, C. H., M.A. Magd.

Interpretation of Holy Script.
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Philos. of Christian Religion
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Oriel Prof.

Septuagint [Grinfield Lectr.
Turner, C. H., M.A. Magd.

Romanes Lecturer

1925, Sir W. H. Bragg ("The Crystalline State") ; 1926, G. M. Trevelyan, C.B.E., Litt.D. ("The Two-party System").

University Extension

Lecturers employed under the direction of the Extra-mural Studies Delegacy (about 30), v. pp. 213, 216.

THE COLLEGES

ALL SOULS COLLEGE. Founded 1437. Warden—F. W. Pember, D.C.L.
Fellows : Abel-Smith, L. R., M.A. ; Adams, W. G. S., M.A., Prof. of Pol.

Theory, etc.; Beckett, W. E., B.A.; Blagden, J. B., B.A.; Brand, Hon. R. H., C.M.G., M.A.; Bridges, E. E., M.A.; Brierly, J. L., M.A., B.C.L., Prof. of Internat. Law; Cholmondeley, F. G., M.A.; Corbett, P. E., B.A.; Coupland, R., M.A., Prof. of Col. History; Craster, H. H. E., M.A., D.Litt.; Curtis, L. G., M.A.; Dawson, G. G., M.A.; de Zulueta, F., D.C.L., Prof. of Civil Law; Edgeworth, F. Y., M.A.; Egerton, H. E., M.A.; Faber, G. C., M.A., Bursar; Foster, J. G., B.A.; Hancock, W. K., B.A.; Harris, C. R. S., M.A., D.Ph.; Holdsworth, W. S., D.C.L., Prof. of Engl. Law; Holland, Sir T. E., K.C., D.C.L.; Johnson, A. H., M.A.; Lang, Rt. Hon. and Most Rev. C. G., M.A., Hon. D.D.; Lawrence, T. E., C.B., B.A.; Lee, R. W., D.C.L., Prof. of Rom.-Dutch Law; Lucas, Sir C. P., K.C.B., K.C.M.G., M.A.; Macgregor, D. H., M.A., Prof. of Polit. Econ.; Makins, R. M., B.A.; Malcolm, D. O., M.A.; Morrah, D. MacG., M.A.; Oman, Sir C. W. C., K B.E., M.A., Librarian, Prof. of Mod. Hist.; Pares, R., B.A.; Pollard, A. F., M.A.; Radcliffe, C. J., B.A.; Robertson, C. G., C.V.O., M.A.; Rowse, A. L., B.A.; Simon, Rt. Hon. Sir John A., K.C.V.O., K.C., M.A.; Somervell, D. B., M.A., Dean; Swinton, Maj.-Gen. Sir Ernest D., M.A., K.B.E., C.B., D.S.O., Chichele Prof. of Military History; Wilkinson, H. Spenser, M.A.; Woodward, E. Ll., M.A.

BALLIOL COLLEGE. Founded 1263–1268. *Master*—A. D. Lindsay, C.B.E., M.A.

Fellows: Bailey, C., M.B.E., M.A., Jowett Fellow, *Classics* * and Tutor for admissions; Bell, K. N., M.A., *Mod. Hist.* *; Gibbon, H. H., O.B.E., M.A., Chaplain, Catech. Lectr.; Hartley, H. B., C.B.E., M.A., *Science*, *‡ *Phys. Chem.*; Hilliard, E., M.A., B.C.L., Senior Bursar, *Law* *; Macdonell, A. A., M.A., Prof. of Sansk.; Macgregor, D. C., M.A., *Classics* *; MacMurray, J. M.A., Jowett Lectr. in *Philos. Classics* *; Merton, T. R., M.A., D.Sc., Prof. of Spectroscopy; Morris, C. R., B.A., *Classics* *; Nicholson, J. W., M.A., F.R.S., *Maths. and Physics* *; Orwin, C. S., M.A.; Pickard-Cambridge, A. W., M.A., Jowett Fellow, *Classics*, *‡ *Greek*, Librarian; Ridley, M. R., M.A., Chaplain, *Engl. Lit.* *; Rodger, A. B., B.A., *Econ.* *; Sumner, B. H., M.A., *Mod. Hist.* *; Urquhart, F. F., M.A., Senr. Dean, *Mod. Hist.* *

Other Lectrs., etc.: Walker, E., D.Mus., M.A.; Priestley, J. G., D.M. Ch. Ch., ‡ *Physiol.*; Duke, A. C. H., C.M.G., Dom. Bursar; Stone, C. G., *Anc. Hist.*; Tylor, T. H., B.C.L., B.A., *Jurispr.*; Wolfenden, J. H., *Chem.*

BRASENOSE COLLEGE. Founded 1509. Principal—C. H. Sampson, M.A.

Fellows: Barker, T. V., M.A., D.Sc., University Lectr. in Chemical Crystallography; Butler, A. J., M.A., D.Litt.; * Griffith, I. O., M.A.; * Holroyd, M., M.A.; Jeffery, R. W., M.A. ‡; Jenkin, C. F., C.B.E., M.A., Prof. of Engin.; Jenkinson, A. J., O.B.E., M.A., Tutor and Librarian *; Jones, H. S., M.A., D.Litt., Prof. of Anc. Hist.; Platnauer, M., M.A., B.Litt. ‡; Stallybrass, W. T. S., O.B.E., M.A., * Vice-Principal, University Lectr. in Crim. Law; Stocker, W. N., M.A., ‡ Home Bursar; Taylor, T. W. J., M.A., ‡; Wace, H. C., M.A., * Chaplain, Bursar; Wakeling, G. H., O.B.E., M.A., Senr. Tutor.

Other Lectrs.: Brett-Smith, H. F. B., M.A., *Engl. Lit.*; Jacobs, A. C., B.A., B.C.L., *Law*.

CHRIST CHURCH. Founded 1546. Dean—Very Rev. H. J. White, D.D.

Canons: Cooke, G. A., D.D., Reg. Prof. of Hebrew; Lock, W., D.D., Lady Marg. Prof. of Div.; Ottley, R. L., D.D., Reg. Prof. of Past. Theol.; Shaw, Rt. Rev. and Ven. E. D., D.D., Archdeacon of Oxford; Watson, E. W., D.D., Reg. Prof. of Eccles. Hist.; Goudge, H. L., D.D., Reg. Prof. of Div.

Students (equivalent to Fellows): Anderson, J. G. C., M.A., * *Classics*;

* Tutor. ‡ Lecturer.

Barrington-Ward, J. G., M.A., * *Classics*; Blunt, H. W., M.A., * *Classics*; Bolton King, E., B.A., Westminster Research Student; Carter, A. T., C.B.E., D.C.L., K.C.; Chaundy, T. W., M.A., * *Maths.*; Dundas, R. H., M.A., * *Classics*; Feiling, K. G., O.B.E., M.A., * *History*; Garrod, Sir A. E., K.C.M.G., D.M., F.R.S., Reg. Prof. of *Med.*; Harrod, H. R. F., M.A., *Mod. Hist.*; Heaton, T. B., O.B.E., D.M., * Lee's Reader in *Anat.*; Hutchinson, G. T., M.A., Treasurer; Jacob, E. F., M.A., D.Ph., *Mod. Hist.*; Lindemann, F. A., M.A., F.R.S., Lee's Prof. of Exp. Philos.; Masterman, J. C., M.A., Censor, * *Hist.*; Murray, Gilbert, M.A., D.Litt., Reg. Prof. of *Greek*; Owen, S. G., M.A., * *Classics*; Payne-Smith, W. H., M.A.; Rawlinson, A. E. J., B.D., M.A., * *Theol.*; Russell, A. S., M.A., * Lee's Reader in *Chem.*; Ryle, G., B.A., *Philos.*; Slessor, Major A. K., M.A., Steward; Soddy, F., M.A., F.R.S., Lee's Prof. of Chem.; Taylor, F. A., M.A., Censor *; Thomson, A., M.A., Lee's Prof. of Anat.

Lee's Reader in *Physics*: Bosanquet, C. H., M.A. Lectrs.: Lawson, F. H., M.A., *Jurispr.*; Morison, C. G. T., M.A., *Rur. Econ.*

CORPUS CHRISTI COLLEGE. Founded 1516. President—P. S. Allen, M A, D.Litt.

Fellows: Clark, A. C., M.A., Corpus Prof. of Latin; Grundy, G. B., M.A., D.Litt. *; Mowat, R. B., M.A. *; Phelps, W., M.A. *; Pidduck, F. B., M.A., D.Sc. *, Vice-Pres.; Plummer, C., M.A., Chaplain; Poynton, J. B., B.A. *; Schiller, F. C. S., M.A., D.Sc. *; Stewart, J. A., M.A., Prof. of Moral Philos.; † Vinogradoff, Sir Paul, M.A., Hon. D.C.L., Corpus Prof. Jurispr. Bursar: Major A. V. Spencer, D.S.O.

Lectrs. not on the Foundation: Lawson, F. H., M.A., Mert., *Jurispr.*; Hammick, D. L., M.A., Or., *Nat. Sci.*; Lightfoot, R. H., M.A., New Coll., *Theol.*

EXETER COLLEGE. Founded 1314. Rector—L. R. Farnell, D.Litt., F.B.A.

Fellows: Atkinson, C. T., M.A., ‡ *Modern Hist.*; Barber, E. A., M.A., Senior Tutor, Dean, * ‡ *Classics*; Cheshire, G. C., B.C.L., M.A., Bursar, ‡ *Law*; Coghill, V. H. K. A., Librarian, * *English*; Henderson, B. W., M.A., D.Litt., * *Ancient Hist.*; Marett, R. R., M.A., D.Sc., * *Philos.* Reader in Soc. Anthrop.; Raikes, H. R., M.A., Sub-Rector, * *Nat. Sc.*; Waters, E. G. R., M.A., *French*; Williams, N. P., B.D., M.A., Chaplain Fellow, ‡ *Theol.* Non-stipendiary: Balfour, H., M.A.; Dawkins, R. MacG., M.A., Prof. of Greek.

Other Lectrs.: Loewe, H. M. J., M.A., *Hebrew*; Newboult, H. O., B.A., St. J., *Maths.*; Stampa, L., M.A., Magd., *Modern Hist.*; Wood, T., D.Mus., M.A., *Music.*

HERTFORD COLLEGE. Founded 1874. Principal—Sir Walter R. Buchanan-Riddell, Bart., M.A.

Fellows: Boase, T. S. R., B.A., Dean, ‡ *Mod. Hist.*; Cecil, Rt. Hon. Lord Hugh, M.P., M.A.; Cruttwell, C. R. M. F., M.A., *‡ *Mod. Hist.*; Denniston, J. D., O.B.E., M.A., Librarian, *‡ *Classics*; Ferrar, W. L., M.A., ‡ *Maths.*; Fifoot, C. H., M.A., ‡ *Jurispr.*; Haselfoot, C. E., M.A.; Murphy, N. R., M.A., Bursar, ‡ *Philos.*; Hignett, C., M.A., ‡ *Anc. Hist.*

Other Lectrs.: Brett-Smith, H. F., *Eng. Lit.*

JESUS COLLEGE. Founded 1571. Principal—A. E. W. Hazel, B.C.L., M.A.

Fellows: Chapman, D. L., M.A., F.R.S., Tutor in *Nat. Sc.* and Junr. Bursar; Reichel, Sir Harry, M.A.; de Winton, Ven. F. H., M.A.; Dodd, P. W. M.A., Asst. Tutor *Litt. Hum.*; Edwards, J. Goronwy, M.A., Librarian, Asst. Tutor, *Mod. Hist.*; Fraser, J., M.A., Prof. of Celtic; Genner, E. E., M.A.,

Senr. Tutor, *Classics*; George, H. J., M.A., Asst. Tutor, *Chem.*; Hazel, A. E. W., C.B.E., M.A., B.C.L., Vice-Principal, Senr. Bursar, Dean, Asst. Tutor, *Law*; Hodgkinson, J., M.A., Asst. Tutor, *Maths.*; Poulton, E. B., M.A., F.R.S., Prof. of Zool.; Seymour, P. A., M.A., Asst. Tutor, *Anc. Hist.*

Other Lectrs., etc.: Brett-Smith, H. F. B., M.A., C.C.C. *English*; Cross, L. B., B.A., Chaplain, ‡ *Theol.*; Stenning, J. F., C.B., C.B.E., M.A. Wad., ‡ *Orient. Langs.*; Waters, E. G. R., M.A. Keb., ‡ *French.*

LINCOLN COLLEGE. Founded 1427. Rector—J. A. R. Munro, M.A.

Fellows: Brook, V. J. K., M.A., * Chaplain, Jr. Tutor, and Dean of Degrees, ‡ *Theol.*; Carlyle, E. I., M.A., Bursar, Librarian, ‡ *Modern Hist.*; Dreyer, G., C.B.E., M.A., F.R.S., Prof. of *Path.*; Beazley, J. D., M.A., Prof. of Class. Archæol. and Art; Hanbury, H. G., M.A., B.C.L., Dean, ‡ *Jurispr.*; Marchant, E. C., M.A., * Sub-Rector, Sr Tutor, ‡ *Classics*; Sidgwick, N. V., M.A., F.R.S., ‡ *Nat. Sc.*

Other Lectrs.: Carlyle, A. J., M.A., D.Litt. Univ., *Engl. Lit.*; Jeffery, R. W., M.A. B.N.C., *Mod. Hist.*; Morison, C. G. T., M.A. Ball., *Agr. Chem.*; Vinaver, E., B.Litt., *French Lang. and Lit.*

MAGDALEN COLLEGE. Founded 1458. President — Sir H. Warren, K.C.V.O., M.A., Hon. D.C.L.

Fellows: Bell, Charles Francis, M.A.; Benecke, Paul V. M., M.A.; Brightman, F. E., M.A.; Bowman, H. L., D.Sc., Prof. of Mineralogy; Carter, C. R., M.A., Estates Bursar, Curator of the Botanic Garden; Chute, A. W., Dean of Divinity; Coolidge, W. A. B., M.A.; Cowley, A. E., M.A., D.Litt.; Craig, E. S., M.A.; Dixon, A. L., M.A., F.R.S., Prof. of Maths.; Driver, G. R., M.A., * *Classics*, Librarian; Gunther, R. W. T., M.A.; Hardie, W. F. R., B.A.; Hogarth, D. G., C.M.G., M.A., D.Litt.; Hope, E., M.A., * *Chem.*; Keeble, Sir Frederick W., C.B.E., M.A., Sc.D., F.R.S., Prof. of Botany; Lee, S. G., M.A., * *Hist.*, Sr. Dean of Arts; Lewis, C. S., M.A., * *English*; MacKeith, M. H., B.M., M.A.,; Manley, J. J., M.A.; Miers, Sir H. A., M.A., D.Sc., F.R.S.; Onions, C. T., M.A.; Perkin, W. H., M.A., Ph.D., F.R.S., Prof. of Chem.; Poole, R. L., M.A.; Salter, H. E., M.A.; Segar, R., M.A., * *Law*; Sherrington, Sir Charles S., O.M., G.B.E., M.A., M.D., Hon. D.Sc., P.R.S., Prof. of Physiol.; Smith, J. A., M.A., Prof. of Philos.; Snow, G. R. S., B.A.; Thompson, J. M., M.A., Home Bursar; Turner, C. H., M.A., Prof. of Exegesis; Wilson, H. A., M.A.; Wrong, E. M., M.A., * *Hist.*; Weldon, T. D., B.A., * *Litt. Hum.*, Junior Dean of Arts; Titchmarsh, E. C., M.A.

Other Lectrs.: Waters, E. G. R., M.A., * *French.*

MERTON COLLEGE. Founded 1264. Warden—T. Bowman, M.A.

Fellows: de Beer, G. R., B.A., B.Sc.; Deane-Jones, I., B.A., * *Modern History*; Edwards, W. M., B.A., * *Classics*; Fyfe, W. H., M.A.; Garrod, H. W., M.A.; Gill, E. W. B., O.B.E., M.A., B.Sc., Dom. Bursar; Goodrich, E. S., M.A., D.Sc., F.R.S., Prof. of Zool., etc.; Gordon, G. S., M.A., Prof. of Engl. Lit.; Green, F. W., M.A., Sub-Warden, * *Theol.*, ‡ *Div.*; How, W. W., M.A., Sen. Tutor, *Class.* and *Anc.* Hist., *; Lambert, B., O.B.E., M.A., * *Nat. Sc.*; Lawson, F. H., M.A.; Marsh, J. E., M.A., F.R.S.; Miles, Sir J. C., M.A., B.C.L., *Law*, *; Mure, G. R. G., M.A., * *Classics*; Newboult, H. O., B.A., * *Maths.*; Smith, D. Nichol, M.A., Dean, Reader in English; Thompson, R. C., M.A., D.Litt.; Wyld, H. C. K., B.Litt., M.A., Prof. of Engl. Lit.

NEW COLLEGE. Founded 1379. Warden—Rt. Hon. H. A. L. Fisher, M.P., M.A.

Fellows: Allen, Sir Hugh Percy, M.A., D.Mus., Professor of Music;

Casson, Stanley, M.A. ; Courtney, William Leonard, M.A. ; Creed, R. S., B.M., M.A., *Physiol.* ; Haldane, John Scott, M.A., F.R.S. ; Hardy, G. H., M.A., F.R.S., Prof. of Geom. ; Hayes, E. H., M.A. ; Henderson, H. L., O.B.E., M.A., Dean, Dean of Arts, * *Classics* ; Joachim, H. H., M.A., Prof. of Logic, Sub-Warden ; Joseph, H. W. B., M.A., * *Philos.* and *Classics* ; Legg, L. G. W., M.A., * *Modern Hist.* ; Lightfoot, R. H., M.A., Junr. Bursar, * Dean of Div., *Theol.* ; Manning, C. A. W., B.A., ‡ *Law* ; Margoliouth, D. S., M.A., D.Litt., Prof. of Arabic ; Matheson, P. E., M.B.E., M.A., * *Anc. Hist.* and *Classics* ; Moyle, J. B., D.C.L. ; Myres, J. L., O.B.E., M.A., Libn., Prof. of Anc. Hist. ; Ogg, D., M.A., * *Modern Hist.* ; Poole, E. G. C., M.A., D.Phil., * *Maths.* ; Prickard, A. O., M.A. ; Radcliffe, G. R. Y., M.A., Senr. Bursar, * ; Salvesen, H. K., M.A., ‡ *Econ.* ; Schuster, E. H. J., M.A., D.Sc. ; Smith, A. H., C.B.E., M.A., * *Philos.* and *Classics* ; Townsend, J. S. E., M.A., F.R.S., Prof. of Physics ; Turner, H. H., M.A., D.Sc., F.R.S., Prof. of Astron. ; Walden, A. F., M.A., * *Chem.* Bursar : Major A. V. Spencer, D.S.O.

Other Lectrs. : House, H. W., B.A., D.S.O., *Mod. Langs.* ; Priestley, J. G., D.M., * *Physiol.* ; Woodward, E. L., M.A., *Mod. Hist.*

ORIEL COLLEGE. Founded 1326. Provost—L. R. Phelps, M.A.

Fellows : Clark, G. N., M.A., * *Modern Hist.* ; Cohn, E. S., B.A., ‡ ; Craigie, W. A., M.A., Prof. of Anglo-Saxon ; Firth, Sir C. H., M.A., Prof. of Mod. Hist. ; Franklin, K. J., B.A., *Nat. Sc.* ; Hammick, D. Ll., M.A., * *Nat. Sc.* ; ‡ Hargreaves, E. L., B.A., *P. Econ.* ; ‡ Jacobs, A. C., B.C.L., *Law* ; Lewis, W. J ., M.A., F.R.S. ; Lyon, P. C., M.A., C.S.I., Treasurer ; Richards, G. C., D.D., M.A., * ; Ross, W. D., O.B.E., M.A., * ; Simpson, P., M.A., ‡ *Engl. Lit.* ; Tod, M. N., O.B.E., M.A., * Librarian ; Wand, J. W. C., M.A., Dean, *Theol.* ; Webb, C. C. J., M.A., Prof. of the Philos. of the Christian Religion.

Other Lectrs. : Berthon, H. E., M.A., *French* ; Rogers, L. J., B.Mus., M.A., *Maths.* ; Simpson, D. C., D.D., Prof. of Interpret. of Holy Script. ; Stallybrass, W. T. S., O.B.E., M.A., *Law.*

PEMBROKE COLLEGE. Founded 1624. Master—F. H. Dudden, D.D.

Fellows : Burrowes, A. B., M.A., Dean, ‡ *Div.* and *Classics* ; Collingwood, R. G., M.A., Librarian, * ; Drake, H. L., M.A., * *Classics* ; McCallum, R. B., B.A., * *Mod. Hist.* ; Ramsden, W., D.M. ; Salt, L. E., M.A., Bursar.

Other Lectrs. : Berthon, H. E., M.A. Wad., *French* ; Brett-Smith, H. F. B., M.A., *Engl.* ; Chaundy, T. W., M.A. Ch. Ch., *Maths.* ; George, H. J., M.A. Jes., *Nat. Sc.* ; Williams, N. P., B.D., M.A. Exe., *Theol.*

THE QUEEN'S COLLEGE. Founded 1340. Provost—J. R. Magrath, D.D. ; Pro-Provost (acting as Head of the College), Rev. E. M. Walker, M.A.

Fellows : Allen, T. W., M.A., Sr. Tutor, Librarian, *‡ *Classics* ; Bell, J., M.A., *‡ *Classics* ; Berrisford, E. A., M.A., Chaplain, ‡ Divinity ; Chattaway, F. D., M.A., Ph.D., F.R.S., *‡ *Chem.* ; Cronshaw, G. B., M.A., Bursar ; Elton, G., M.A., ‡ *Modern Hist.* ; Hodgkin, R. H., M.A., *‡ *Mod. Hist.* ; House, H. W., D.S.O., M.A., ‡ *Mod. Langs.*, Laming Resident Fellow ; Hunt, A. S., M.A., D.Litt., Prof. of *Papyrol.* ; Paton, H. J., M.A., *‡ *Philos.* ; Sayce, A. H., M.A., Hon. D.Litt. ; Streeter, B. H., M.A., ‡ *Theol.* ; Thompson, C. H., M.A., *‡ *Maths.* ; Walker, E. M., M.A., ‡ *Ancient Hist.*

Other Lectrs. : Brett-Smith, H. F. B., M.A., *English* ; Douglas, C. G., C.M.G., B.Sc., D.M., *Physiol.* ; Forbes, N., M.A., *Russian* ; Hazel, A. E. W., C.B.E., B.C.L., M.A., *Law* ; Salvesen, H. K., B.A., *Econ.*

ST. JOHN'S COLLEGE. Founded 1555. President—H. A. James, D.D.

Fellows : Applebey, M. P., M.B.E., M.A., B.Sc., Asst. Tutor, ‡ *Chem.* ;

Costin, W. C., M.A., ‡ *Mod. Hist.*, Jr. Dean of Arts; Dermer, E. C., M.A., B.D.; Douglas, C. G., C.M.G., B.Sc., D.M., F.R.S., Vice-Pres., * ‡ *Nat. Science*; Hall, F. W., M.A., Senr. Tutor, Senr. Dean of Arts, *‡ *Classics*; Hart-Synnot, R. V. O., D.S.O., O.B.E., M.A., Bursar; Last, H. M., M.A., ‡ *Anc. Hist.*; Mabbott, J. D., B.A., B.Litt., ‡ *Philos.*; Poole, A. L., M.A., ‡ *Modern Hist.*, Asst. Tutor; Powell, J. U., M.A., Tutor, ‡ *Classics*, Libn.; Pullan, L., D.D., Tutor, * ‡ *Theol.*; Troup, R. S., C.I.E., M.A., D.Sc., Prof. of Forestry; Watson, J. A. S., M.A., Sibthorpian Prof. of Rural Econ.

Other Lectrs.: Berthon, H. E., M.V.O., M.A. Wad., *French*; Hughes, A. M. D'Urban, M.A., *English*; Newboult, H. O., B.A., *Maths.*

TRINITY COLLEGE. Founded 1554–1555. President—H. E. D. Blakiston, D.D. (acting Estates Bursar).

Fellows: Green, M. H., M.A.; Higham, T. F., M.A., Dean, *‡ *Classics*; Hinshelwood, C. N., M.A., ‡ *Chem.*; Kirk, K. E., B.D., M.A., Chaplain and Lectr. in *Theology*; Landon, P. A., M.A., ‡ *Law*, Jr. Bursar; Liddell, E. G. T., B.M., M.A.; Ogilvie, F. W., M.A., ‡ *Econ.*; Patterson, M. W., M.A., * ‡ *Modern Hist.*; Price, H. H., M.A., B.Sc., ‡ *Philos.*; Weaver, J. R. H., M.A., *‡ *Modern Hist.*, Librarian.

UNIVERSITY COLLEGE. Founded 1249. Master—Sir Michael E. Sadler, K.C.S.I., M.A.

Fellows: Allen, C. K., M.A., Prælector in *Jurispr.*; Bowen, E. J., M.A., Prælector in *Chem.*, Dean of the Hall; Carritt, E. F., M.A., Prælector in *Philos.*, Librarian; Cole, G. D. H., M.A., Prælector in Social Science; Farquharson, A. S. L., C.B.E., M.A., Prælector, Sr. Tutor, Dean of Degrees, * *Litt. Hum.*; Grensted, L. W., B.D., M.A., Chaplain, Junior Dean; Keir, D. L., B.A., Prælector in *Mod. Hist.*, Dean; Leys, K. K. M., M.A., *Modern Hist.*, *; Poynton, A. B., M.A., Prælector in *Greek*, Bursar; Sollas, W. J., M.A., F.R.S., Prof. of Geology; Stevenson, G. H., M.A., Prælector in *Anc. Hist.*; Walker, E. W. A., D.M., D.Sc., * Prælector in *Nat. Philos.*

Other Lectrs. and Asst. Lectrs.: Bosanquet, C. H., M.A., *Physics*; Carlyle, A. J., M.A., D.Litt., *Pol. Philos.* and *Econ.*; Douglas, J. A., D.Sc., M.A. Keb., *Geol.*; Ewert, A., M.A., *French*; Johnson, A. H., M.A., *Modern Hist.*; Morrison, C. G. T., M.A., *Agric.*, etc.; Thomson, C. H., M.A. Qu., *Maths.*; Wilson, F. P., B.Litt., M.A., *Engl. Lit.*

WADHAM COLLEGE. Founded 1610. Warden—J. Wells, M.A., Vice-Chancellor.

Fellows: Bowra, C. M., M.A., ‡ *Classics*, Dean; Brabant, F. H., M.A., ‡ *Philos.*; Dixey, F. A., D.M., F.R.S., Wills Medical Fellow, ‡ *Physiol.*, etc., Sub-Warden and Bursar; Lennard, R. V., M.A., Librarian, * *Hist.*; Lindemann, F. A., M.A., F.R.S., Prof. of Expl. Philos.; Stenning, J. F., C.B., C.B.E., M.A., Senr. Tutor, ‡ *Div.*, *Hebrew*; Wade-Gery, H. T., M.A., * *Classics*, *Anc. Hist.*; Keeley, T. C., ‡ *Physics*; Cecil, Lord E. C. D. G., ‡ *Mod. Hist.*

Other Lectrs.: Berthon, H. E., M.A., M.V.O., *French*; Graham-Brown, G. F., M.A.; Segar, R., M.A., *Law*; Simpson, P., M.A., *English.*

WORCESTER COLLEGE. Founded 1714. Provost and Senr. Bursar—F. J. Lys, M.A.

Fellows: Bryan-Brown, A. N., M.A., ‡ *Classics*; Narborough, F. D. V., M.A., ‡ *Theol.*; Pickard-Cambridge, W. A., M.A., *‡ *Classics*; Roberts, P. E., M.A., Vice-Provost, *‡ *Mod. Hist.*; Somerset, H. V. F., M.A., ‡ *Mod. Hist.*; Wilkinson, C. H., M.A., ‡ *Engl. Lit.*, Dean, Librarian.

Other Lectrs.: Marriott, J. A. R., M.A., *Mod. Hist.*; Rogers, L. J., B.Mus., M.A., *Maths.*

* Tutor. ‡ Lecturer.

ST. EDMUND HALL. Founded *c.* 1238. Principal—G. B. Allen, M.A., D.D. Staff: Bell, J., M.A. Qu., ‡ *Classics*; Brewis, G. R., M.A., Senr. Tutor; Chattaway, F. D., M.A., F.R.S., ‡ *Chem.*; Emden, A. B., M.A., Vice-Principal, Bursar, * *Modern Hist.*; Thompson, C. H., M.A., ‡ *Maths.*; Waters, E. G. R., M.A., ‡ *French*; * Fletcher, R. F. W., M.A., Chaplain, *English*.

KEBLE COLLEGE. Founded 1870. Warden—B. J. Kidd, D.D. Tutors: Butler, B. E., B.A., *Theol.*; Lectr.—Dix, G. E. A., B.A., *Mod. Hist.*; Gretton, R. H., M.A., *Hist.*; Jolliffe, J. E. A., M.A., *Hist.*; Owen, A. S., M.A., *Classics*; Parker, H. M. D., M.A., *Litt. Hum.*; Parkes, G. D., B.A., B.Sc., *Nat. Sc.*; Reade, W. H. V., M.A., Sub-Warden, *Litt. Hum.*; Rice-Oxley, L., M.A., *Hist.*

NON-COLLEGIATE STUDENTS. Censor—J. B. Baker, M.A., Non-Coll. Tutors and Lecturers: The Censor, *Modern Hist.*; Bouchier, E., Exeter, *Anc. Hist.*; Brook, V. J. K., M.A. Lincoln; Carlyle, A. J., D.Litt. Univ., *Engl.*; Chattaway, F. D., M.A. Qu., *Chem.*; Garabedian, D., M.A., *French*; George, H. J., M.A. Jes., *Chem.*; Kendrew, W. G., M.A., Non-Coll.; Nicholls, A. W., M.A., B.Litt., *Mod. Hist.*; Peskett, G. L., New Coll., *Physiol.*; Richards, G. C., B.D., M.A. Oriel, *Classics*; Sturt, H., *Philos.*; Thompson, C. H., M.A. Qu., *Maths.*

CAMPION HALL. Master—J. H. Keane, M.A.

ST. BENET'S HALL. Master—P. J. McCann, M.A.

Recognized Societies of Women Students (v. p. 205)

LADY MARGARET HALL, founded in 1878 and opened in 1879; constituted under a Deed of Trust in 1893, incorporated 1913. *Principal*—Lynda Grier, M.A. *Tutors*—Evelyn M. Jamison, M.A., Vice-Principal; Janet Spens, M.A., D.Litt.; Helena C. Deneke, M.A.; Margaret G. Skipworth, M.A., Librarian; Mary Coate, M.A.; Agnes M. Ramsay, M.A.; Catherine M. Chilcott, M.A. *Secretary*—Christine Anson, M.A. *Bursar and House Treasurer*—Dorothy Harbottle. *Susette Taylor Research Fellow*—K. M. Lea, B.A. *L.M.H. Research Student*—Phyllis V. McKie, Ph.D. (Wales).

SOMERVILLE COLLEGE, founded as Somerville Hall in 1879. *Principal*—Miss E. Penrose, M.A. *Vice-Principal*—Hon. Alice Bruce, M.A. *Tutors*—Mildred Pope, M.A.; Hilda Lorimer, M.A.; Jane W. Kirkaldy, M.A.; Helen Darbishire, M.A.; Maude Clarke, M.A.; Doris Rhodes, M.A., Charlotte Young, M.A. *Lady Carlisle Research Fellow*—Mary Porter, B.Sc.; *Mary Somerville Research Fellow*—May McKisack, B.A., B.Litt. *Dean and Librarian*—Vera Farnell, M.A. *Secretary and Treasurer*—Agneta Beauchamp. *Bursar*—Beatrice Stonedale.

ST. HUGH'S COLLEGE, founded as St. Hugh's Hall, in 1886, was incorporated as St. Hugh's Coll. in 1911. *Principal*—* Miss B. E. Gwyer, M.A. *Tutors*—Miss J. W. Kirkaldy, M.A., *Natural Science*; * Miss M. E. Seaton, M.A., Lond., *English*; * Miss E. D. Ritchie, M.A., *Classics*; Miss M. Farrow, M.A., *Chem.*; Miss H. M. Buckhurst, M.A., *English*; * Miss E. A. Francis, M.A., Lond., *French*; * Miss S. M. Goulding, M.A., Doc. Univ., Paris, *French*; * Miss M. F. Perham, M.A., *Hist.*; Miss E. E. S. Procter, M.A., *Hist.* *Bursar*—* Miss G. Thorneycroft, B.A. Birm. *Librarian*—Miss W. Mammatt, M.A. *Asst. Bursar*—* Miss S. F. Salt. *Secretary*—Miss M. Fowle. [* Resident.]

* Tutor. ‡ Lecturer.

ST. HILDA'S HALL, founded in 1893 by Miss Dorothea Beale, sometime Principal of Cheltenham Ladies' Coll. Admission (minimum age, 18) by examination. Students are expected to read for an Honour Degree, B.Litt., B.Sc., or Univ. Dipl. *Principal*—Winifred H. Moberly, M.A. *Tutors*: Julia de L. Mann, M.A., Vice-Principal, *Econ.*; Eleanor W. Rooke, M.A., *English*; Christina Keith, M.A., *Classics*; Agnes M. Sandys, M.A., *Mod. Hist.*; Kathleen Chesney, B.A., Librarian, *French*; Jane W. Kirkaldy, M.A., Lectr., *Nat. Sc.*; Eliz. M. O. Farrow, B.A., Lectr., *Chem.*; Edith E. Wardale, M.A., Lectr., *English Language*; Violet L. Winslow, *House Bursar*; Joyce C. Thornton, M.A., *Principal's Secretary*.

SOCIETY OF OXFORD HOME-STUDENTS, founded in 1879. The Governing Body is the Univ. Delegacy of Home-Students. *Principal*—Miss Burrows, M.A., 1 Jowett Walk, Oxford. There is a staff of 12 Tutors and 1 Lecturer. The number of members (excluding Oxford graduates) is at present limited to 220.

The students reside in their own homes or with relatives or in private families in Oxford or, occasionally, in lodgings. Twelve reside in the Anglican convent of S. Thomas and eight in the Wantage Sisters' House, 33 Banbury Rd.

St. Frideswide's, Cherwell Edge, is a hostel maintained by the Roman Catholic Community of the Holy Child Jesus, and licensed by the Univ. for the reception of Home-Students, religious and secular.

GENERAL INFORMATION

CONSTITUTION — FACULTIES — ADMISSION — INCORPORATION — WOMEN STUDENTS—ADMISSION TO ADVANCED STANDING—AFFILIATED COLLEGES —TERMS—DEGREES—ARTS—B.LITT. AND B.SC.—ADVANCED STUDIES— THEOLOGY—LAW—MEDICINE—MUSIC—DIPLOMAS—COMMISSIONS IN H.M. FORCES—INDIAN CIVIL SERVICE—TRAINING OF TEACHERS— SCHOLARSHIPS—RHODES SCHOLARSHIPS—APPOINTMENTS COMMITTEE— LIBRARIES AND MUSEUMS—LABORATORIES—OXFORD AND CAMBRIDGE SCHOOLS' EXAMINATION BOARD—LOCAL EXAMINATIONS—EXTRA-MURAL STUDIES—PUBLICATIONS—EXPENSES.

CONSTITUTION. *Convocation*, consisting of all Masters of Arts and Doctors of the Faculties of Divinity, Civil Law, and Medicine who have their names on the Univ. books, has the power of confirming or rejecting (but not of amending) Statutes which have passed Congregation. It also transacts much of the ordinary business of the Univ. by means of "Decrees." It confers honorary degrees and also degrees granted by Decree or Diploma. It sanctions petitions to Parliament, authorizes the affixing of the Univ. seal when necessary, and its members elect the Univ. representatives in Parliament. But no proposals can be made to it which have not been sanctioned by the *Hebdomadal Council*, which consists of the Chancellor, Vice-Chancellor, immediate ex-Vice-Chancellor (for a certain period after the expiration of his term of office), and Proctors and 18 other members (Heads of Houses, Professors, etc.) elected by Congregation. This Council takes the initiative in all the legislation of the Univ., except what is proposed by the General Board of the Faculties. The *Congregation of the University* consists mainly of the teaching and administrative elements in the Univ. and Colleges. It has the power of adopting, rejecting, or amending legislation submitted by the Hebdomadal Council previously to its submission to Convocation. The *General Board of the Faculties* has power, after consultation with the Board of the Faculty concerned, to draft and send to Congregation through the Hebdomadal Council

any proposals on matters connected with studies and examns. which require to be dealt with by Statute.

The Chancellor, elected for life by Convocation, is a non-resident Officer. The executive power is chiefly in the hands of his Deputy, the Vice-Chancellor, who is annually nominated by him from among the Heads of Colleges, and the Proctors annually elected by the Colleges and Halls in rotation.

The Colleges are corporate bodies distinct from the Univ. They are not even, at all events directly, subject to regulations made by the Univ.; they manage their own property and elect their own Officers, and the Proctors have no power within their walls. In many matters, however, they and the Univ. recognize each other's regulations, and an intimate relation exists between them; the great majority of the members of the Univ. belong to the Colleges, and all who belong to the various Colleges are at the same time members of the Univ. Teaching is given partly by Univ. Profs., Readers, and Lectrs., partly by the more numerous body of College Tutors and Lectrs. Altogether the teaching staff numbers approximately 300.

FACULTIES. Theology, Law, Medicine, Literæ humaniores, Modern History, Mediæval and Modern Languages, Oriental Languages, Natural Science. For Music and for Philosophy, Politics, and Economics, there are Boards of Studies.

ADMISSION to the Univ. ("Matriculation") is without respect of sex, birth, age, nationality, or creed, and follows upon admission to a College or Hall or to the Society of Non-Coll. Students, or Society of Home-Students. No one can become a member of the Univ. unless he first becomes a member of one of these Societies. An application for admission must therefore be addressed, not to any officer of the Univ., but to the proper officer * of the Society to which admission is desired; it should be made, if possible, a year or more before residence is contemplated, especially if rooms within the College walls are desired. After the academical year 1925–26 the passing of an entrance examn. will be a condition of admission to matriculation.

The Colleges and Halls and the Society of Non-Coll. Students require certain qualifications of character and intellectual attainment in which the passing of *Responsions* or some equivalent examn. is ordinarily included.

Students from abroad (v. also Appendix XXIII.). The Secretary (H. S. Williamson, M.A., Indian Institute) of the *Delegacy for Oriental Students* is prepared to advise Indian and other oriental students, who should apply for admission through him.

To deal with enquiries from other students who wish to become members of the Univ. and whose home residence is outside Great Britain an *Adviser to Colonial and Foreign Students* (R. Truslove, M.A., 40 Broad St.) is attached to the Univ. Registry. He keeps a register of the vacancies at the various colleges, and applications for admission may be made through him.

Permission to attend lectures given by the Department of English Language and Literature as external students can be obtained by persons who are not members of the Univ. from the Secy. of Faculties, Old Clarendon Building, Broad St., from whom copies of the current lecture lists are also obtainable; fee, 10s. per term for one hour a week. Permission to attend other lectures as external students can generally be obtained by applying in writing to the lecturers and paying their fees.

* Balliol—The Tutor for Admissions; Qu.—The Pro-Provost; Non.-Coll.—The Censor, Non-Collegiate Buildings; in other cases—The head of the Society (v. *supra*).

INCORPORATION. Members of the Univs of Cambridge and Dublin can be, under certain conditions, "incorporated" into this Univ., *i.e.* admitted to the same status and degree which they hold in their own Univ. Notice of intention to incorporate as an undergraduate must be sent to the Registrar through the Head of a College or the Censor of Non-Coll. Students. The privileges of incorporation as a graduate are limited to B.A., M.A., Litt.D., B.D., D.D., and D.Sc. of those Univs. Any applicant for incorporation must have kept by residence at his Univ. before taking his degree the same number of terms that he would have been required to keep at Oxford for the corresponding degree. While an undergraduate is allowed to incorporate as a matter of course, a graduate must first satisfy the Hebdomadal Council that there are adequate reasons.

In 1910 a Delegacy for WOMEN STUDENTS was constituted, and provision made for recognition by the Univ. of Societies for their reception for academical study, students on the books of such Recognized Societies being accorded a privileged status. Under the provisions of a Statute approved by Convocation on May 11, 1920, which came into force on Oct. 7, 1920, women may be matriculated and admitted to degrees in the Univ. Previous to matricn. a woman must have been admitted as a member of one of the 5 Societies of Women Students. A woman may be admitted to *Responsions* before matricn. provided her name is sent in to the Asst. Registrar by the Head or a Tutor of a Soc. to which she *bona fide* desires admission. Women members of the Univ. are admitted to all degrees (except B.D. and D.D.) under the same conditions as those prescribed for men as regards standing, examns., course of study, exercises, and fees, and under analogous conditions as regards residence. A Women Students' Property Committee administers all property vested in the Univ. for the benefit of women members of the Univ. generally, and in particular the Nettleship Library and Bertha Johnson Loan Fund. The Delegacy for Women Students has been abolished.

ADMISSION TO ADVANCED STANDING OF STUDENTS FROM OTHER INSTITUTIONS: "JUNIOR" AND "SENIOR" STUDENTS. I. *Universities other than Indian.*—(*a*) Any student who shall have pursued at his Univ. a prescribed course extending over 2 years may be admitted as a "Junior Student" provided that his course and the standard attained by him in any examns. proper to it shall have been approved. No course will be approved which does not include the study of 2 languages other than English, of which languages one must be either Latin or Greek. (*b*) Any person who has obtained a degree at his Univ., Degree and Univ. having been approved, may be admitted as a "Senior Student," provided that he shall have pursued at that Univ., or, if approved, at more than one Univ., a course extending over 3 years.

II. *Indian Universities.*—(*a*) Any student who shall have pursued at his Univ. a prescribed course extending over 2 years, and obtained the Degree of B.A. or B.Sc., may be admitted as a "Junior Student," provided that Degree and Univ. have been approved. No Degree will be approved which does not include the study of English and in addition of 2 of the following languages, Latin, Greek, French, German, Sanskrit, Arabic, Persian, Pali, Classical Chinese, of which 2 either Latin or Greek or French or German must be one. (*b*) Any student who shall have pursued at his Univ. or, should the Hebdomadal Council in his case approve, at more than one Univ. a prescribed course extending over 3 years and obtained a Degree with 1st or 2nd Class Honours, may be admitted as a "Senior Student," provided that Degree and Univ. have been approved.

III. A *Junior Student*: (*a*) may reckon his 1st term as his 4th; (*b*) is not required to pass Responsions; (*c*) is entitled to supplicate for Degree of B.A.

after having resided 6 terms and passed the 1st Public Examn. and either (1) obtained a place in the Class List of an Honour School of the 2nd Public Examn. or been allowed "ægrotat"; or (2) satisfied the Examiners in the 2nd Public Examn. in the Final Honour School of Nat. Sc. in Chem., Pt. I., or in the Final School of Agric. or of Forestry; or (3) obtained Honours in the 1st Public Examn, and subsequently passed the 2nd Public Examn.; or (4) if disqualified by standing from obtaining such Honours, shown such merit as would otherwise have entitled him to a place on the Class List.

A *Senior Student*: (*a*) may reckon his 1st term as his 4th; (*b*) is not required to pass Responsions or any part of the 1st Public Examn. or any Preliminary or Previous Examn. of the 2nd Public Examn.; (*c*) is entitled to supplicate for the Degree of B.A. after having kept statutable residence for 6 terms, and having either (i.)—as above—(*c*) (1); or (ii.)—as above—(*c*) (4); or (iii.) satisfied the Examiners in the Final Honour School of Chemistry, Part I.; or (iv.) passed the Prel. Examn. in Agriculture or Forestry and also the Final Examn. in Agriculture or Forestry.

No Junior or Senior Student will be entitled to supplicate for the Degree of B.A. except as above.

Members of the following AFFILIATED COLLEGES may claim the status of Affiliated Junior Student if they have pursued a 2 yrs.' course of study at their Coll. and taken Honours in an examn. thereon: St. David's Coll., Lampeter (3 yrs.' course with Honours may give admission to status of Senr. student); Univ. Colls., Nottingham, Reading, Southampton, Exeter; Exeter Diocesan Training Coll. The privileges of an Affiliated Junior Student are similar to but not identically the same as those of a "Junior Student."

TERMS. The Academical year, which begins in Oct. and ends in June, consists of 3 terms, each of some 8 weeks. Residence within the walls of a College or Hall, or in licensed lodgings,* during a certain number of terms, usually 9, and never less than 6, is a condition of admission to any degree except in Music. Full terms begin April 25 and Oct. 17, 1926, and Jan. 23, 1927.

DEGREES. B.A., M.A., B.Litt., D.Litt.; B.Sc., D.Sc.; D.Phil.; B.D., D.D.; B.C.L., D.C.L.; B.M., B.Ch., D.M., M.Ch.; B.Mus., D.Mus.

The degrees which are open to graduate students of other Univs. who are qualified for matricn. at Oxford are those of B.Litt., B.Sc., D.Phil., B.C.L., and B.D.

ARTS. Examns. in Arts, more usually called "Schools," are sharply divided into Pass and Honour examns.; in the former there is but one standard, in the latter successful candidates are distributed into 3 or 4 classes. No one is admitted to a place in the Class Lists who has exceeded a certain number of terms reckoned from Matricn. No conditions of residence are attached by the Univ. to either Pass or Honour examns.; it is simply for the attainment of the degree of B.A. that residence is obligatory. Every Coll. and Hall, however, as well as the Delegacy of Non-Coll. Students, has its own rules with regard to both residence and the entry for examns. A candidate for the degree of B.A. must (1) reside at the Univ. as a matriculated member during 9 terms, unless he is privileged as a member of another Univ. or as a "Service" Student; (2) pass or obtain Honours in the following examns., namely:

(*a*) *Responsions*. The examn. may be passed before matricn., and most Colls. require it or an equivalent examn. to be passed before residence is begun.

* In special circumstances leave to reside in a house which has not been licensed may sometimes be obtained.

Names of candidates who have not been matriculated must be entered through an officer of the Society to which they intend to belong. The examn. includes 3 groups: I. (*a*) Latin, (*b*) Greek; II. (*a*) English, (*b*) French, (*c*) German, (*d*) Italian, (*e*) Spanish; III. (*a*) Maths., (*b*) Nat. Sc. In order to be deemed to have passed Responsions it is necessary to have passed either in both subjects of Group I. and in the 2 subjects in Group III., or else in one subject at least in each group, and in 4 subjects in all, including two languages other than English.

(*b*) The *1st Public Examn.* This consists of (1) Examn. in Holy Scripture, (2) Honour Classical Moderations, (3) Hon. Math. Modns., (4) Pass Modns., (5) Prelim. Jurisprudence, (6) Prelim. Mod. Hist., (7) Prelim. N.Sc., (8) Prelim. Agr., and (9) Prelim. Forestry. In order to pass the Examn. a candidate must pass in (1) and in one of the other subjects.

(*c*) The *2nd Public Examn.* This consists of (*a*) a Pass School and (*b*) an Honour School. (*a*) contains a large variety of subjects, and candidates taking it are required to pass in 3 of these, of which one must be a language-subject other than English. There is also a homogeneous course in either *Agriculture* or *Forestry*. (*b*) includes the following, a class in any one of which is sufficient: Literæ Humaniores (Philos. and Ancient Hist.); Maths.; Nat. Science (Phys., Chem., Physiol., Zool., Bot., Geol., Astron., or Engin.); Jurispr.; Mod. Hist.; Theol.; Oriental Studies (Sanskrit, Arabic, Hebrew, Persian, or Egyptian); Engl. Lang. and Lit.; Mod. Langs. (French, Ger., Ital., Span., Russ., or Mediæval and Mod. Greek); Philos., Politics, and Economics.

Under certain conditions members of other Univs. and officers not under 21 years of age who have held for not less than 3 years a Commission in H.M. Regular Forces, and been seconded or specially relieved from active duty by the Admiralty, War Office, Air Ministry, or India Office for the purpose of attending an academic course of not less than 2 yrs. may be admitted to the status of "Service Student," and obtain exemption from Responsions and, under further conditions, from the 1st Public examn., as well as a remission of 3 terms of the necessary residence (v. *supra*, p. 206). Analogous concessions are made in favour of Probationers for the Indian Forest Service who have obtained an approved degree at an approved Univ. and been admitted to the status of "Indian Forest Service Student." Natives of Asia, Egypt, or the Sudan, born of non-European parents, can apply for permission to offer a substitute for Latin or Greek in Responsions and the 1st Public examn.

Advanced Study and Research. The Degrees B.Litt. and B.Sc., instituted in 1895 in order to encourage special study and research, are granted upon the satisfactory completion of an approved course of special study or research pursued under supervision and for the most part at Oxford. Application to enter upon such a course may be made by any person who produces sufficient evidence of his ability and (1) is a member of the Univ. who has passed the examns. for the degree of B.A., or (2) has taken an approved degree at an approved Univ., or (for the B.Litt), not being a member of the Univ. of Oxford, (3) has obtained an Oxford diploma with distinction, or is held by the Board of the Faculty to be fully qualified to engage in research. Applications must in all cases be made to the Secy. of Faculties through an officer of the Society to which the candidate belongs or desires to belong. Residence as a member of the Univ. for 6 terms is a necessary condition for either degree. A candidate for the B.Litt. must first undergo a course of training in research methods and then do a special piece of research work and write a thesis, and may be required to pass a written examn. For the B.Sc., which is confined to the faculties of natural science and medicine, no probationary period is prescribed, and research may in exceptional cases be conducted elsewhere.

Of a similar nature but of a much higher standard is the degree of DOCTOR OF PHILOSOPHY instituted in 1918 (v. p. 17).

To a student who, having kept residence for a period of not less than 3 terms, has completed a course of study or research for the B.Litt. or B.Sc. and embodied the results in a dissertation, or has pursued during such residence a course of study or research under the direction of the COMMITTEE FOR ADVANCED STUDIES, a *Certificate* may be granted by the Board of the Faculty or Board of Studies concerned or by the Committee for Advanced Studies, as the case may be.

The higher degrees, D.LITT. AND D.Sc., instituted in 1900, are awarded for published work of sufficient merit.

THEOLOGY. The B.D. degree is open to candidates of over 21 yrs. of age who have passed a Qualifying examn. in Christian Theology, pursued a course of study therein extending over 6 terms, resided for 6 terms, and submitted a thesis of sufficient merit in some branch of the subject. No candidate may present a thesis until he has passed the Qualifying examn., which is open to Oxford M.A., to persons who have, not less than 5 terms previously, passed all examns. for the Oxford B.A., and, under certain conditions, graduates of other univs. First-class hons. in School of Theol. exempts from this examn.

The degree of D.D. is open to those who have been admitted to the degree of B.D. subject to certain conditions of standing, provided they have submitted a thesis, or published work, of sufficient merit in some branch of Christian Theology.

LAW. The examn. for the B.C.L. degree is open either (1) to B.A.'s of the Univ. or (2) under certain conditions (including residence for 6 terms) to graduates in Arts, Philos., Science, or Law of other Univs. The subjects are Jurispr., Roman, Engl., Roman-Dutch, and Internat. Law.

MEDICINE. The B.M. degree is open only to B.A.'s of the Univ. who have passed certain examns. in Med. and Nat. Science. The total period of study for the degree (including the scientific subjects studied in the Arts course) is generally about 7 or 8 years, of which three are usually spent in London in preparation for the more strictly professional subjects of the 2nd B.M. examn. The M.Ch. degree is open to candidates who have passed all the examns. for the B.M. and B.Ch., and either are members of the Surgical staff of a recognized hospital or have acted in such a hospital as Dresser or House Surgeon for 6 mos. A candidate for the D.M. must be a B.M., and have entered on the 30th term from matricn. and had his name on the books of some Coll. or Hall or on the Register of Non-Coll. Students for 20 terms.

Affiliated Colonial or Indian Senior Students may be exempted from the preliminary examn. in Physics, Chemistry, Zoology, and Botany, in consideration of equivalent examns. passed at their previous Universities.

MUSIC. The degree of B.Mus. is open to candidates who *either* (*a*) have been admitted to the degree of B.A. *or* (*b*) have (1) passed Responsions or an equivalent or a special Prelim. examn. for students of music, (2) satisfied the examiners in English or 1 of 6 language subjects in the Final Pass School, and (3) pursued either at the Univ. or at some approved institn. a course of musical study, approved by the Board of Studies for Music, extending over at least 2 yearly courses. All candidates must also pass 3 examns. in Music (the subject of one of which is the composition of a Musical Exercise) under conditions laid down by Statute. There is no residential qualification for the degree of B.Mus., but the conditions of admission to the various examns. make it necessary that the candidate's name should be on the books of his Coll. or Hall or of the Society of Non.-Coll. Students for at least 9 terms. A B.Mus. may

qualify for the degree of D.Mus. by submitting a musical composition for approval and passing a further examn. in Music, but cannot submit a composition until the 9th term after his admission to the Baccalaureate.

DIPLOMAS. Most of these are open to persons who are not members of the Univ. Minimum courses and addresses of Secretaries from whom particulars can be obtained:

Geography, 1 yr., The Director, School of Geog., Mansfield Rd.

Education, 1 yr. (or Vacation course, v. *infra*), Director of Training, 15 Norham Gardens.

Economics and Polit. Sc., Dr. A. J. Carlyle, 29 Holywell St.

Anthropology, 1 yr., The Secy., Committee for A., 40 Broad St.

Forestry, 1 year, The Professor of F., School of F. Open to graduates of Oxford or other Univs.

Rural Economy, 1 yr., The Professor of R.E., School of R.E.

Classical Archæology, 1 yr., Secy. to Committee on C.A., Ashmolean Museum.

Theology, 1 yr., Sec. of Faculties.

Open to Registered Medical Practitioners · Public Health and (also open to Registered Practitioners and to approved Bachelors and Doctors of Med. of Univs. outside the U.K.) Ophthalmology, Asst. Registrar.

Certificates: Surveying or General and Regional Geog., 2 terms, Director, School of Geog.; Physical or Cultural Anthropology, 3 months, The Secy., Committee for A., 40 Broad St.; French or German; Advanced Study and Research (v. p. 207); Training for Social Work, The Secy., Social Training Committee, Barnett House.

The following has been approved as a Society for higher study at Oxford, the members of which may have their names entered in the Univ. Register of Diploma students although they are not members of the Univ.: *Ruskin College*.

COMMISSIONS IN H.M. FORCES, v. Appendix I. Candidates must have resided for 3 yrs. at the Univ. and be in possession of a degree. Office of the Secy. to the Delegacy for Military Instruction—20 St. Michael's St.

INDIAN CIVIL SERVICE. Studies of selected candidates are superintended by a Delegacy.

The Department for the TRAINING OF TEACHERS (address—15 Norham Gardens), established in 1919, is under the general direction of a Delegacy. For staff, see p. 191—Education. For the Univ. Dipl. in Educn. there is a 1 yr. post-grad. course, theoretical and practical. Undergraduates are admissible on certain conditions. One or, under certain conditions, two terms may be spent at a secondary school away from Oxford. Students are also accepted for a 4 yrs.' course (v. Appendix XIX.).

A *vacation course* of 4 weeks (fee £7 : 10s.) is held annually in August, open without restriction to men and women. Students of this course who are graduates and who are teachers with 7 yrs.' experience may obtain the Univ. Diploma without further residence.

SCHOLARSHIPS. College Entrance scholarships are very numerous and valuable. The Univ. scholarships are usually open only to members of specified standing. Of those open to graduates, 16, of the aggregate value of £1130 p.a., are for Engl., Greek, and Latin; 1 (£100) is for Ment. and Mor. Philos.; 2 (£80) for Maths.; 8 (£1340) for Med. and Nat. Science; 4 (£440) for Law; 3 (£300) for Theol.; 13 (£760) for Oriental Studies. There are several College Research Fellowships tenable by persons distinguished in Science or Lit. (who may be elected without examn.) on condition of prosecuting some definite work.

The General Board of Faculties has power to provide studentships for advanced study and research; and there are certain funds, such as the Craven and Ireland, from which grants for the furtherance of particular studies may be made.

The **Rhodes Scholarships** were founded in 1902 under the will of the late Cecil John Rhodes. The value of each is £400 a year, tenable at Oxford for 3 years, subject to approval from year to year by his College of the Scholar's progress and conduct. The conditions of the competition in each country or community are fixed from time to time by the Trustees.

In his will, Mr. Rhodes expressed the wish that "in the election of a student to a Scholarship, regard shall be had to (1) his literary and scholastic attainments; (2) his fondness for and success in manly outdoor sports, such as cricket, football, and the like; (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindliness, unselfishness, and fellowship; and (4) his exhibition during school-days of moral force of character, and of instincts to lead and to take an interest in his schoolmates."

The Dominions and Colonies. An annual Scholarship is assigned to each Province of the Dominion of Canada; to each State of the Australian Commonwealth; to the Dominion of New Zealand; and in South Africa to the Province of Natal, the Transvaal, the Orange Free State, the Cape Province, the S.A. College School in Cape Town, the Diocesan College School of Rondebosch, the Boys' High School, Stellenbosch, and the St. Andrew's College School at Grahamstown, in alternate years to the towns of Kimberley and Port Elizabeth, and not more than three annually to Rhodesia. The Colonies of Jamaica, Newfoundland, and Bermuda have each an annual Scholarship. A single Scholarship was for the first time allotted to the Island of Malta in 1921, and is awarded once in 3 years.

In founding these Scholarships, Mr. Rhodes stated that he did so because he believed that the education of young Colonists at one of our residential universities will "broaden their view," "instruct them in life and manners," and "instil into their minds the advantage to the Colonies as well as to the United Kingdom of the retention of the unity of the Empire."

United States of America. Two Scholarships are assigned under the will to each State. As the Scholarship is tenable for 3 years, there must be for each State 1 year out of every 3 in which there is no election. Of the 48 States, 32 elect each year, the remaining 16 holding no election. The reason given by Mr. Rhodes for founding the American Scholarships is his "desire to encourage and foster an appreciation of the advantages which I implicitly believe will result from the union of the English-speaking people throughout the world, and to encourage in the students from the U.S. . . . an attachment to the country from which they have sprung, but without I hope withdrawing them or their sympathies from the land of their adoption and birth." *The American Oxonian*, the official magazine of the Alumni Assocn. of American Rhodes Scholars, is published quarterly by W. W. Thayer, Concord, N.H., $2 a year, 10s. in England.

Number actually in residence, 1924–25 (whole or part), 185—Studying Law, 54; Nat. Sc. and Med., 48; History, 15; Econ. (Diploma and B.Litt. or D.Phil.), 3; Litt. Hum., 4; Engl., 27; Theol., 5; Maths., 2; School of Phil., Polit. and Econ., 20; other subjects, 7.

Professions followed by Rhodes Scholars since leaving Oxford. Education, 264; Law, 209; Business and Industry, 85; Administration and Government Service, 59; Medicine, 54; Ministry, 32; Farming, 21; Social and Philanthropic Work, 12; Journalism and Publishing, 16; Forestry, 9; Scientific

(Research), 9; Army, 8; Engineering, 9; Mining, 3; Unsettled or unknown, 26; Miscellaneous, 14.

General. Provision is now made under the Trust for the continuous residence at Oxford of 190 scholars. Candidates must be between 19 and 25 years of age and unmarried. They must be citizens of the country from which they come—usually with 5 years' domicile; and must have 2 years' standing at a regular degree-granting College or Univ., except in a few small communities which have no such institution. Detailed information for each country may be obtained from the offices of the Trust, Seymour House, Waterloo Place, London, S.W.1.

Among books dealing with the subject are: *The Rhodes Scholarships*, by Sir G. Parkin, Houghton, Mifflin & Co., Boston, and Constable, London, 1913, and *Oxford of To-day*: a manual for prospective Rhodes Scholars, Oxford Univ. Press, 1922.

Secretary to the Rhodes Trustees—Philip Henry Kerr, C.H., Seymour House, Waterloo Place, London, S.W.1. Local Secretaries: Oxford—F. J. Wylie, Esq., 9 South Parks Road, Oxford; *U.S.A.*—President Frank Aydelotte, Swarthmore College, Swarthmore, Pa.; *Canada*—J. M. Macdonnell, Esq., 153 St. James St., Montreal; *Australia*—J. C. V. Behan, Esq., Warden's Lodge, Trinity College, Melbourne; *S. Africa*—P. T. Lewis, Esq., Court Chambers, Keerom St, Cape Town.

The APPOINTMENTS COMMITTEE, together with its Consultative Committee, contains representatives of every College. It receives notice of (1) scholastic appointments; (2) Government appointments; (3) openings in Banking, Industrial and Commercial firms; (4) miscellaneous posts. The *Secy.* is R. Truslove, M.A., Acland House, 40 Broad St. Telegraphic address—Appointments, Oxford; Telephone, 225 Oxford.

LIBRARIES AND MUSEUMS. The *Bodleian Library*, founded by Sir Thomas Bodley in 1602, which is also the general library of the Univ., contains over 1,000,000 vols. (representing more than 2,000,000 separate literary pieces) and 40,000 MSS. Persons, other than graduates of the Univ., are admitted on presenting a recommendation from some one in a responsible position. The *Manual for Readers* (obtainable from the Librarian) contains full information about the contents and catalogues of the Library. The chief books relating to it are: Macray, W. D., *Annals* (Clar. Press, 1890, 25s.); Clark, A., *Guide for Visitors* (Clar. Press, 1906, 1s. 6d.); Gibson, S., *Some Oxford Libraries* (Clar. Press, 1914, 2s. 6d.); Madan, F., *The Bodleian Library*, London, 1921, 2s. 6d.; *The Bodleian Quarterly Record* (1s. quarterly, obtainable from the Libn.).

A departmental *Law* library is housed in the Examination Schools.

The Taylorian Library of *Modern Languages and Literature*, 50,000 vols., comprises the chief philological, literary, and historical works of the principal European languages and nearly all respective Reviews, Literary periodicals, etc., of Continental Societies of importance. The Radcliffe (Univ. Museum) consists very largely of books on Mathematics, Natural Science, and Medicine, and the Tylor *Anthropological* collection.

The Codrington Library (All Souls College) is especially rich in works bearing upon *Modern History and Law*. The Brand Library, also at All Souls, is a collection of books on *Political Economy and Science*. The Maitland Library, at the Examination Schools, is intended to assist advanced work and research in *Social and Legal History*. There are also the following: the Beit Library (*Colonial History*) and the Library of the *English School* at the Examination Schools; a *Geographical* Library (5000 vols.) and *Maps* (13,000 sheets) in Mansfield Rd.; and a Library of *Economics and Politics* at Barnett House.

The *Indian Institute* has 23,000 vols. representing ancient, mediæval, and

modern India and including also Arabic, Armenian, Georgian, Turkish, Egyptian, Burmese, and Chinese works; Sanskrit and Prakrit MSS. (printed catalogue); all the leading Oriental journals in English, French, and German; and a Museum giving an historical synopsis of Indian life and customs.

The *College Libraries* include many important collections such as the *Russian and other Slavonic* books, 5000 vols., of Queen's; *History and Literature* MSS. of 17th Century, of Worcester; *Music and Early Scandinavian* collections of Christ Church; the Hastings Rashdall collection of books and pamphlets dealing with the *history of universities*. The MSS. in the College Libraries are described in Coxe's Catalogue, published at the Clarendon Press.

Art and Archæology. The Ashmolean, the earliest English Museum, formed 1600–1650, contains, in addition to a Library of *Art and Archæology*, the Parian and other marbles, Egyptian and Oriental, Classical, Prehistoric, Anglo-Saxon and local antiquities, 60,000 coins and medals (published catalogue of Mohammedan coins), and a special collection of Drawings and Engravings by Ruskin.

The Pitt-Rivers Museum has an *Anthropological* collection illustrating evolutionary history of material arts.

Zoology, Geology, Mineralogy (17,000 spec.), *Entomology* (Lepidoptera Collection illustrating mimicry, etc.), are all represented in the Univ. Museum.

LABORATORIES: Electrical; Clarendon (chiefly for study and research in Heat, Optics, and Acoustics); Chemistry, Organic and Inorganic (several Colleges have labs. of their own, *e.g.*, Ch. Ch., Magd.—Analyt. Chem.; Ball. and Trin.—Phys. Chem.; Jes.—Inorganic; Queen's); Physiol.; Zool., with small expl. garden; Entom., with extensive Collections and Library; Botany (Garden with Collections and Library); Geology (special equipment for study of fossils by serial sections); Mineralogy (special facilities for research in Crystallography); Engineering; Forestry (expl. plantations and forest garden); Model Farm; Human Anat.; Path. and Bact.; two *Observatories*.

An *Imperial Forestry Institute* was established in 1924. It is controlled by a Board of Governors representing the Univ. and the Government departments (Colonial Office, Forestry Commission, etc.) concerned It provides post-graduate and specialized training, as well as revision courses for forest officers already serving, and forms a centre for research in regard to forest production. Practical instruction is given in various forest centres on the Continent.

There is an Institute for Research in *Agricultural* Economics which has prepared an Agr. Atlas of England and Wales, published by Ordnance Survey Dept. The Director edits the *Journal* of the R.A.S., England. The *School of Rural Economy* has been recognized by the Ministry of Agric. as an Advisory Centre for a Province which includes 3 counties. A survey of *Rural Industries* of England and Wales was completed by the School of Rural Economy in 1923. An Institute for Research in *Agricultural Engineering* has been provided in Oxford by the Ministry of Agric.

The OXFORD AND CAMBRIDGE SCHOOLS EXAMN. BOARD, established 1873, examines or inspects and reports on the work of schools which provide education of the highest grade. It also holds yearly examns. and awards certificates—Higher, School, and Lower. The two former exempt the holder, under certain conditions, from Responsions, Previous, Matricn. examns. of London and of the Northern English Univs., and the Prelim. examns. of various professional bodies, etc. The Regns. of the Board are published by the Ox. and Camb. Univ. Presses (post free 1s. 3d.). Secretaries: at Oxford—C. H. Wilkinson, M.A., Examination Schools; at Cambridge—T. G. Bedford, M.A., 61A St. Andrew's St.

LOCAL EXAMINATIONS are held in March, July, and Dec. at Oxford and elsewhere. Candidates successful in the School Certificate or Higher Local examns., or in the Higher School Certificate examn., are on certain conditions exempted from Responsions. The regns. may be obtained from the Secy. of Local Examns., Merton St. All the examns. are open to persons of both sexes.

EXTRA-MURAL STUDIES. There is a Department for the non-vocational education of adult persons beyond the limits of the Univ. The Delegacy controlling the Dept. has two Committees, one for Univ. Extension Lectures and one for Univ. Tutorial Classes.

Univ. Extension Lectures. The system begun in Camb. was adopted by Ox. in 1878. Up to the end of the session 1924–25 the number of persons attending courses was over 658,000, and the number of students examined 30,089; 22 summer meetings had been held. Reading Univ. Coll. largely owes its origin to extension work. The following certifs. are issued under the sanction of the Delegacy: Terminal, on courses of 10 or 12 lectures; Sessional, on 24; Sessional in Honours, implying distinction and a special essay; affiliation or Higher Certif. of Systematic Study, on a sequence of courses comprising 96 lectures *plus* a general examn.; Vice-Chancellor's, on same conditions as affiliation *plus* examn. in Elem. Maths. and 2 languages. The majority of the lectures are on historical, scientific, or literary subjects. Any Univ. Extension student who avails himself of all the advantages offered, including the Summer Meeting, can secure continuous and systematic instruction in almost any subject for a yearly outlay not exceeding £10. Two Colls. (Ball. and Ch. Ch.) have elected Senior Extension Lectrs. to Fellowships or Studentships in view of their success in Univ. Extension work. Further information can be obtained from the Secy. to the Delegates for Extra-mural Studies, Acland House, Oxford (Rev. F. E. Hutchinson, M.A.). The next (biennial) Oxford Summer Meeting will be in Aug. 1927.

Tutorial Classes are held in working-class districts under the supervision of the above-mentioned Committee. Students pledge themselves to a 3 yrs.' course. The classes meet once a week for 2 hrs. from Sept. to April, and each student writes an essay about once a fortnight. The Organizing Secy. is E. S. Cartwright, M.A., Barnett House, Oxford.

A *Vacation Course for Foreign Students* is held biennially, and will take place in August 1926. An Experimental course on more advanced lines (in Mediæval History) was held in 1924.

PUBLICATIONS. *Calendar* (Nov.) 12s. 6d. net (includes Honours of each year since Oct. 1911. Earlier Honours given in *Historical Register* 1900, 10s. 6d. net, and its *Supplement*, 1900–1920, 10s. 6d. net, giving, in addition to class lists and Hon. lists, information regarding constitution, university scholarships, offices and their incumbents, etc.). *Responsions* Pamphlet (June), 6d. (Regns. for 1925–27 with dates of examns. and general information); *General Information* (admission, residence, entrance scholarships, examns. for B.A., etc.), 7d. post free; *Statutes and Decrees* (Oct.), 5s. net; *Examn. Statutes* (July), 3s. 6d. net; Pamphlet on *Advanced Study and Research* (Research Degrees, subjects of study, Libraries and Collections, Scientific Departments and Staffs), 1s. net; *Pocket Diary* for academic year (Oct.), 2s. 6d. net and 3s. 6d. net; *Resident Members*, with their addresses, 2s. 6d. net (term); *Medical Degrees and Diplomas*, 6d. net; Decennial Report, 1914–23, on work of *Oxford and Cambridge Schools Examn. Board*, 6d.; *Enactments* in Parliament concerning Ox. and Camb., Winchester, Eton, and Westmr., 2 gs. Oxford Univ. *Roll of Service*, 1920, with names (14,561) and records of members of the Univ. who served in the Mily. and Naval Forces during the War, 15s. net.

Oxford of To-day, a Manual for Prospective Rhodes Scholars, ed. L. A. Crosby and F. Aydelotte, 1923, 8s. 6d. net; *Univ. Gazette* (official), 6d. weekly. All the above are obtainable from the Oxford Univ. Press and its branches. *Oxford Magazine* (during term), 1s.; *Isis* (during term), 6d. The *Ox. and Camb. Year-book and Directory*, Sonnenschein, 5s.; each part gives short records of living graduates. Numerous Histories of the Univ. and Colleges have been pubd. by the Ox. Hist. Soc., Hutchinson and Co., and others. The *University Handbook*, 21st edition, is out of print.

EXPENSES. "It is not possible to make any general estimate of the cost of a University course, which varies at different colleges, and depends upon the student's own means and tastes. It must suffice here to enumerate certain items common to all undergraduates, and to recommend persons anxious for further details to consult the authorities of the Society which they wish to join. . . . The total cost of living in college might perhaps be estimated at about £60 a term for a man who exercises reasonable care in his expenditure. At Keble College there is a fixed annual charge (at present £150), covering tuition, the rent of furnished rooms, board, and service. The necessary expenses of a non-collegiate student have been estimated at about £81 per annum inclusive, which would make it possible to obtain the B.A. degree after a 3 years' course for a total outlay of £267 . 10s. At the residential Societies for Women Students an inclusive terminal fee is charged. This is about £50 a term, but varies slightly at the different Societies."—Extract from *General Information* pamphlet mentioned in preceding paragraph. The items specified are:—(1) Annual: Univ. dues, £4 : 10s.; College tuition fee, £24 to £31 : 10s.; room rent, £15 to £18; hire of furniture, £6; College clubs, £6; rates and taxes on the rooms occupied, College dues and establishment charges and servants' wages, kitchen and buttery bills, fuel, laundry, lighting, etc. (amounts not separately estimated). (2) Initial: matricn., £4; College admission fee (usually £5, but often less); College caution-money, £10 to £30 (returned when name is removed from the books, and often in part on taking a degree). (3) Occasional: examn. fees, about £9 for B.A. (exclusive of Responsions, £3); degree fees (B.A., B.Litt., or B.Sc., £7 : 10s.).

What has been stated above regarding the difficulty of estimating expenses at Oxford applies equally to Cambridge. The *Student's Handbook to Cambridge*, 1924–25 (Cambridge University Press, 7s. 6d.), deals with the subject of expenses very fully, and concludes with the following remarks: "The total annual expenditure of a student, *exclusive of initial, occasional, and additional expenses*, may be fairly estimated at about £235, although on the one hand it is possible by great care to live upon less, and on the other hand a larger expenditure will often enable the student to obtain greater advantages from a University career. . . . It is of the utmost importance that the foregoing estimates should not be taken for more than they are worth. . . . The only safe guide to a student's expenditure is information supplied by the college itself at which he decides to enter." The detailed statements on which the above estimate of annual expenditure is based include "guesses" as to personal expenses which the Oxford estimate leaves out of account. The items are:—Univ. fees (capitation tax), £5 : 5s.; College fees, £54 (tuition, £24 to £30; establishment charge, £18 to £21; College dues, £4 to £10); board and lodging, £110 (rooms and service, £21 to £50; food expenses, £38 to £87; fuel, £5 to £7; laundry, £4 : 10s. to £9); personal expenses, £67 (books, travelling, tradesmen—including tailor, etc., clubs, and societies). The excluded initial expenses are caution-money, College admission fee (£2 to £5), matricn. £5, furniture, linen, china, etc., and (£2 to £4 : 10s.) cap, gown, and surplice. The "occasional" fees are for examns. £8 (medical,

£16 : 8s.), and degree fees, £5. The "additional" expenses (which may be heavy, especially if much private tuition has to be allowed for) are additional lecture and laboratory fees, long vacation expenses, and private tuition.

THE YEAR 1924–25

BENEFACTIONS. Lord Rothermere and Sir Otto Beit further endowed the Chairs of American History and Colonial History respectively, bringing stipend of each up to £1200; Osler Memorial Fund, £2000 (3½ per cent stock) for grants for medical study outside Oxford and for bronze medal; All Souls College, £500 for Bodleian Library, £300 for extra-mural studies and Summer School, and £900 for Private International Law lectureship; Magdalen College, £1056 for various specified objects; friends of late F. B. Ellis, £350 for Library of Music; Mrs. Osgood, £1000 for prize in Music; E. G. Duff Bequest (half of residuary estate) for the Bodleian; Mrs. Ellen E. Pope, cost of wooden bridge; British School at Athens, £100 studentship.

LEGISLATION. A statute creating a Univ. Entrance Examn. identical with responsions was framed, and will probably take effect in 1926. Conditions for B.Litt., B.Sc, and D.Phil. were revised: candidates for B.Litt. are now admitted first as probationers and do not begin to write a thesis until reported qualified to undertake research; candidates for admission as advanced students with a view to D.Phil. who have not obtained a First Class in Final Honour School, or a B.Litt. or B.Sc. certif. must have graduated at a Univ. and proved fitness for research; candidates working for Part II. of Final School of Chem. will be able to continue this work together with research for B.Sc. A D.Phil. of 20 yrs.' standing may be a candidate for D.Litt. or D.Sc. The study of Greek (or of Greek history or literature with texts offered in translation) is no longer compulsory upon candidates for any Final Honour School. The office of Secretary of Faculties was created for transaction of work connected with Faculties, Boards of Studies, etc., and the Committee for Advanced Studies. A pension scheme was established for employees not belonging to the administrative or teaching staff. New exemptions from Responsions: Graduates in Arts or Science of approved Indian Univs., if their course at their Indian Univ. included English and one of nine other specified languages; subject to certain conditions, holders of Malta Matricn. examn. certificate or Cape Province Secondary School Senior certificate.

DEATHS. Lord Curzon (March 20), Lord Milner (May 13), A. D. Godley (June 27), C. F. Burney (April 15), W. H. Stevenson (Oct. 22), H. le B. Lightfoot (Nov. 18), C. N. Jackson (Oct. 28). RETIREMENTS (with title of Professor Emeritus): P. Gardner, J. Wright, Sir Chas. H. Firth.

HONORARY DEGREES. *D.C.L.*—Rt. Hon. Stanley Baldwin, Earl Jellicoe, Rt. Hon. Winston Churchill, Sir Percy Z. Cox. *D.D.*—Rt. Rev. Germanos. *D.Litt.*—Prof. de Sanctis of Turin, Hon. J. Fortescue, Sir Chas. Firth, F. Thureau-Dangin, O. Elton, D. S. McColl, M. W. MacCallum, H. J. Weld. *D.Sc.*—Br. Gen. the Hon. C. G. Bruce, Lewis Evans, Annie Cannon. *M.A.*—E. J. Thompson, C. T. Wing, W. D. Bentliff, F. W. Goldstone, Ethel Hurlbatt, Lilian M. Faithfull. The Encænia of 1926 and 1927 will be on June 23 and June 30 respectively.

OTHER DEGREES. D.D., 11; D.C.L., 1; D.M., 5; B.D., 17; B.C.L., 23; B.M., 34; D.Sc., 4; B.Litt., 44; B.Sc., 28; M.A., 571; B.A., 976; B.Mus., 6.

NUMBER OF STUDENTS: Working for B.A. degree—men 3021, women 680, total 3701; working for degrees in Law, Medicine, and Divinity—m. 142,

w. 18; working for degrees of B.Litt., B.Sc., and D.Phil.—m. 135, w. 29; Diploma Students—m. 101, w. 76; not working for any Degree or Diploma—59. Total number of students in residence—m. 3458, w. 803, total 4261. Matriculations in 1924–25: Men 1166, women 284 (previous year 1129 and 245). Successful men and (in brackets) women candidates in Final Honour Schools in 1925: 739 (201), namely—Litt. Hum. 114 (8), Maths. 14, Nat. Sc. 115 (9), Jurispr. 117 (3), Mod. Hist. 198 (54), Theol. 38 (1), English 71 (83), Mod. Langs. 27 (32), Philos., Politics and Economics 45 (11), B.C.L. 21.

University Extension Work. 526 lectures distributed in 79 courses at 60 centres, regularly attended by over 7000 persons. Of the courses 22 were in History, 36 in Lit., 3 in Econ., 6 in Art and Archæology, 6 in Nat. Sc., 3 in Music, 1 in Psychology, 1 in Geography, 1 in Ethics. 22 full Tutorial Classes, 1 advanced class, and 4 preliminary classes were held with an average attendance of 421.

The Summer Meeting of 1925, when the main subject was the Drama, attracted a larger proportion than usual of younger people, and a larger number of University Extension students were present. The Delegates assigned a limit to the number of students that could be received from any one foreign country, and this limit was reached in the case of the U.S.A. and Germany. Sweden, France, Holland, and Switzerland supplied a fair number of students, and nearly all the countries of Europe were represented. There were students also from the British Dominions, and from China, Japan, and Palestine. The attendance in the second part of the meeting, 618, was nearly equal to the number in the first part, 689, and 455 were present for the whole meeting. The special course in Zoology was attended by 23, most of whom were teachers of science in secondary schools.

THE UNIVERSITY OF SHEFFIELD

VISITOR—H.M. THE KING.

CHANCELLOR—The Most Hon. the MARQUESS OF CREWE, K.G.

PRO-CHANCELLORS—Lt.-Col. H. K. STEPHENSON, D.S.O., LL.D., D.L.; Sir WM. E. CLEGG, C.B.E., LL.D.

VICE-CHANCELLOR—Sir W. HENRY HADOW, C.B.E., M.A., D.Mus., LL.D.

TREASURER—D. VICKERS, D.Eng.

REGISTRAR—W. M. GIBBONS, O.B.E., M.A.

LIBRARIAN—A. P. HUNT, B.A.

PROFESSORS, LECTURERS, ETC.

Anatomy [A. Jackson Prof.
Patten, C. J., M.A., M.D., Sc.D. Dub., F.R.A.I.
Cobb, J. H, M.B., B.S. Lond., M.B., Ch.B., F.R C.S. (also Lectr. in Surg. Anat.) Lectr.
Naish, Mrs. Lucy, M.B. Lond. (Osteology) Lectr.
4 Demrs.

Architecture
Harrison, H. St. J., A.R.I.B.A. Lectr.
Leighton, H. B., A.R.I.B.A. Asst. Lectr.
2 Hon. Lectrs. for Evening Courses.

Art, v. Civic

Biology, v. Zool. and Botany

Botany [Lectr.
Bentley, B. H., M.A. Ox., F.L.S.
Lind, Edna M., B.Sc. Liv., Ph.D. Asst. Lectr.

Chemistry
Wynne, W. P., D.Sc. Lond., F.R.S., F.I.C. Firth Prof.
Tryhorn, F. G., M.Sc. Liv. (Phys. C.) Lectr.
Bennett, G. M., M.A. Camb., B.A., Ph.D. Lond. Lectr. (Organic C.).
Turner, Emily G., M.Sc. Asst. Lectr.
Bennett, Dorothy M., M.Sc. Asst. Lectr.
Smith, T. B., B.Sc. Lond. ,, ,,
Chapman, A. W., M.Sc. Lond. Demr.
Wyatt, W. F., M.Sc. Demr.

Civic Art
Rothenstein, W., M.A. Prof.

Classics
Forster, E. S., M.B.E., M.A. Ox., F.S.A. (Greek) Prof.
Summers, W. C., M.A. Camb. (Latin) Firth Prof.
Whitehead, Florence, M.A. Manc. Lectr.
Tredennick, G. H. P. P., B.A. Camb. Lectr.

Dentistry, v. *infra*

Economics
Knoop, D., M.A. Manc. Prof.
Beales, H. L., M.A. Manc. Lectr.
Dobbs, S. P., B.A. Camb. Lectr.

Education

Turnbull, G. H., M.A. Liv., Ph.D. Bonn — Prof.
Vickers, W., M.Sc., M.Ed. Manc. — Lectr.
King, Etheldreda, B.A. Lond. — Lectr.
Bone, Woutrina A., B.A. — Lectr.
Bradford, E. J. G., M.Sc. Lond. — Lectr.
Thompson, J. Ridley, M.Sc. Durh. — Lectr.

Engineering, Civil

Husband, Joseph, M.Eng., M.I.C.E., M.Am.Soc.C.E., M. French S.C E., F.R.C.Sc.I., M.I.Struct.E. — Prof.
Snelgrove, E. C., M.I.Struct.E., M. French S.C.E. — Lectr.
Jenkins, J., B.Eng. Belf. — Asst. Lectr.

Engineering, Elec.

Wall, T. F., D.Sc. Vict., D.Eng. Liv. — Lectr.

Asst. Lectrs.:

Hainsworth, C. H., A.M.I.E.E.
Hunt, F. O., A.M.I.E.E.
Joyce, T. C., B.Sc. Lond. & Bris., A.M.I.E.E. — Asst. Lectr. & Demr.

Engineering, Mechanical [Prof.

Lea, F. C., O.B.E., D.Sc. Lond., M.I.C E., M.I.M.E., A.R.C.S.
Boulden, F., B.Sc. Lond., M.Eng., M.I.Mech.E., A.M.I.C.E. — Senr. Lectr.
Kershaw, J. W., M.Sc. Manc., M.Eng. — Senr. Lectr.
Hibbins, W. G., B.Sc. Lond., B.Eng., A.M.I.C.E. — Lectr.
Waite, C. W., B.Sc. Lond. — Lectr.
Davies, H. J., B.Sc. Lond. — Lectr.
Chappell, A. J., B.Sc. Lond., A.M.I.C.E. — Asst. Lectr.
Burnet, W. — Asst. Lectr. & Demr.
Turner, F. C., M.Eng., A.M.I.E.E. — Asst. Lectr. & Demr.
Gulliver, G. C. — Demr.

Engineering, Mining

Statham, I. C. F., B.Eng., M.I.Min.E., F.G.S. — Prof.
Bevan, E. — Lectr.
Sinclair, J., M.Eng. — Lectr.
Cooke, W. E., B.Eng. — Res. Asst.

English Lang. and Lit.

Morgan, A. E., M.A. Dub. — Prof.
Jones, J. D., M.A., B.A. Lond., Ph.D. Berl. — Lectr. (Eng. Lang.).
White, H. M. O., M.A. Dub. — Lectr.

French

Baker, A. T., Litt.D. Camb., Ph.D. Heid. — Prof.
Larg, D G , M A. Aberd. — Lectr.
Clapton, G. T., M.A. — Lectr.
Lonjaret, J., L. ès L. Lyons — Asst. Lectr.

Geography

Brown, R. N. Rudmose, D.Sc. Aberd. — Lectr.
Garnett, Alice, B.A. Lond. — Asst. Lectr.

Geology [Sorby Prof.

Fearnsides, W. G., M.A. Camb.
Wilcockson, W. H., M.A. Camb. — Lectr.
Lewis, H. P., M.A. Camb. (Asst. Lectr. in *Mining* G.).

German

Willoughby, L. A., D.Lit. Lond., Ph.D. Vienna — Lectr.

History

Appleton, H. W., M.A. Ox. — Prof. (Ancient H.).
Black, J. B., M.A. Glas. and Ox. — Prof. (Mod. H.).
Ward, E. H., M.A. Camb. — Lectr. (Eccl. H.).
Fieldhouse, H. N., B.A. Ox., M.A. — Lectr. (Modern H.).
Lewis, N. B., M.A. Manc. — Lectr. (Modern H.)

Law [Prof.

Trotter, W. F., K.C. (Scot.), LL.D., M.A. Camb., Barr.-at-Law

Lias, W. J. (Judge), M.A. Camb. Prof. Internat. Law.
Metcalfe, O. K., M.A., LL.M. (Pub. and Com. L.), Barr.-at-Law Lectr.
Renwick, J., B.A., LL.B. Camb. Asst. Lectr.
Downing, F., A.C.A. Tutor in Trust Accounts, etc.

Mathematics
Daniell, P. J., M.A., Sc.D. Camb. Town Trust Prof.
Stewart, C. A., M.A., B.Sc. Glas., B.A. Camb. Lectr.
Cox, R. R. S., M.A. Camb. Asst. Lectr. and Tutor and Curator of Observatory.
Bryan, W E., M.A. Camb. Asst. Lectr.
Lightfoot, N. M. H., B.A. Camb. Asst. Lectr.
Saynor-Thompson, R., B.Sc. (for Engin.) Lectr.

Medicine, v. *infra*

Metallurgy, v. also Tech.
Desch, C. H., D.Sc. Lond., Ph.D. Wurz., F.R.S., F.I.C. Prof.
Knowles, F. K., M.Met. (also in Dental M.) Lectr. Sen. Lectr.
Ibbotson, F., B.Sc. Lond., D.Met., F.R.C.Sc.I., F.I.C. (also in Dental M.) Lectr. Sen. Lectr.
Wreaks, J. H., B.Met. Lectr.
Orme, F., M.Met. Lectr.
Rees, W. J., B.Sc.Tech., F.I.C. Lectr. (Refractories).
Percival, R. T. Demr.
Gregory, E. Demr.
Smith, C. J., Ph.D. Lond., A.R.C.S. Research Asst.

Mining, v. Engin., Geol.

Music [Lectr.
Linfoot, G. E., B.Mus., B.Sc. Lond.

Philosophy [Lectr.
Laing, B. M., M.A., D.Litt. Aberd.

Physics
Milner, S. R., D.Sc. Lond. and Bris., F.R.S., F.I.P. Prof.
Southerns, L., M.A. Camb., B.Sc. Lond. Lectr.
Lawson, R. W., D.Sc. Durh., F.I.P. Lectr.
Mathews, Irene M. Asst. Lectr.
Clarke, J. R., M.Sc., F.I.P. Asst. Lectr.
Evans, Morgan H., B.Sc. Wales Asst. Lectr.

Physiology
Leathes, J. B., M.A., M.B., B.Ch. Ox., F.R.C.S., F.R.C.P., F.R.S. Prof.
Eaves, Eliz. C., B.Sc., M B., B.S., D.P.M. Lond. Lectr.
Imrie, C. G., M.D. Westn., Ont., M.R.C P. Lectr.
Clark, G. A., M.D. Durh. Lectr.

Demrs.:
Platt, Robert, M.D., M.R.C.P.
.....
.....

Public Health, v. Medicine

Russian
Birkett, G. A., M.A. Liv. Lectr.

Spanish [Hughes Lectr.
Birch, J. N., B.A. Lond.
Fenn, Beatrice (Mrs.), L. ès L. Barcelona Asst. Lectr.

Technology, Fuel [Prof.
Wheeler, R.V., D.Sc. Manc., F.I.C.
Batley, W. A., M.Sc Manc. Lectr.
Wigginton, R., B.Sc. Lond., A.R.C S Lectr.
Beet, A. E., B.Met. Demr.
Rees, W. J., B.Sc. Tech., F.I.C. Lectr. in Refractories.
Etherton, S. L. B. Research Asst.

Technology, Glass
Turner, W. E. S., O.B.E., D.Sc. Lond., M.Sc. Birm., F.I.P. Prof.
English, S., D.Sc., A.I.C. Lectr.

Cousen, A., M.Sc. Lond., A.R.C.S., A.I.C.
Asst. Lectr. & Demr.
Research Assts.:
Dimbleby, Violet, M.Sc.
Firth, Edith M., B.Sc.
Winks, F., M.Sc. Tech.

Zoology
..... (also Prof. of Biol.) Prof.
Grove, A. J., B.A. Camb., D.Sc. Birm. Lectr.
Esther Lowe, B.Sc. Liv.
Asst. Lectr.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Dermatology and Radiology
..... Lectr.
2 other Clinical Teachers.

Diseases of Children
Leader, H., M B. Lond. Lectr.
5 other Clin. Teachers.

Dis. of Ear, Nose, and Throat
Wilkinson, G., B.A., M.B., B.Ch. Camb., F.R.C.S.
Lectr. in Aural Anat. and History of Med.
1 other Clin. Teacher.

Diseases, Infectious [Lectr.
Williams, E. H., M.D. Brus., M.R.C.S., L.R.C.P., D.P.H.

Diseases, Mental [Lectr.
Vincent, W., M.D., B.S. Durh.
1 other Clin. Teacher.

Forensic Medicine
Carter, G., M.B., Ch.B. Manc., D.P.H. Lond. Lectr.

Medicine
Hall, A. J., M.A., M.D. Camb., F.R.C.P. Prof.
Naish, A. E., M.A., M.B., B.C. Camb., F.R.C.P. Lectr.
Barnes, A. E., M.B. Lond., M.B., Ch.B., F.R.C.P Lectr.
Skinner, E. F., M.A., M.B., B.C. Camb., F.R.C.P. Tutor
3 other Clin. Teachers.

Obstetrics and Gynæcology
Phillips, Miles H., M B., B.S. Lond., F.R.C.S. Prof.
King, W. W., M.B., Ch.B. Bris., F.R.C.S. Lectr.
Stacey, J. E., M.D., B.S. Lond., M.B , Ch.B , F.R.C.S.
Lectr. (Gyn. Anat.).

Ophthalmology
Pooley, G. H., B.A. Camb., F.R.C.S. Eng. & Edin. Lectr.
3 other Clin. Teachers.

Pathology, v. also Surg.
Douglas, J. S. C., M.A., D.M., B.Ch. Ox., M.Sc. Birm.
Joseph Hunter Prof.
Townrow, Vincent, M.B., B.S. Lond., F.R.C.S.
Asst. Cur. of Path. Museum.
Simson, F. W., M.B., Ch.B. Edin.
Lectr.
Tingle, Clara D., M.B., Ch.B.
Demr.
Edington, J. W., M.D., D.P.H. Edin. Dir. of P.H. Bact. Lab.
Yates, A. G., M.A., M.D. Edin. (Lectr. in Med. Anat.) Demr.
Guest, D., M.B., Ch.B.
Asst. Bacteriologist.
Gleave, Humphrey H., M.B., Ch.B. Leeds Demr. and Asst.

Pharmacology
Mellanby, E., M.A., M.D. Camb., F.R.S. Prof.
Southgate, H. W., M.B., B.S., B.Sc. Lond. Lectr.
4 Research Assts.

Public Health
Wynne, F. E., M.B., B.Ch. Dub., D.P.H. Manc. Prof.
Anderson, A., M.B. Aberd., D.P.H.
Demr.

Radiology
..... Lectr.
Clinical Teachers:
Hallam, A. R., M.D., Ch.B.
Grout, J. L. A., M.R.C.S., L.R.C.P.
Kirk, Florence S., M.B., Ch.B. Glas., D.P.H. Camb. Demr.

Surgery [Prof.
Connell, A., Ch.M , F.R.C S. Edin.
Simpson, G., F.R.C.S. Lectr.
Cuff, A., B.A , M.B , B.C. Camb., F R.C S. Lectr.
Finch, E. F., M.D., M.S. Lond., F.R.C.S.; Asst. Cur. of Path. Museum and Lectr. in S. Path. Lectr.
Mouat, T. B , M D., Ch B. Edin., F R C.S. Tutor.
4 other Clin. Teachers.

Tuberculosis [Lectr.
Rennie, J., M.D. Aberd., D.P.H.

Vaccination [Lectr.
Chisholm, J., M.B., Ch.B. Edin.

Dental Science, v. also Met.

Law, W. J., L.D.S., R.C.S. (D. Anat. and Physiol.) Lectr.
Froggatt, G. H., L.D.S., R.C S. (D. Mech. and D. Surg.) Lectr.
Stokes, P. S., L D.S., R.C.S. (D. Surg.) Lectr.
Watson, C. T., L.D.S., R C.S. (Orthod) Lectr.
Barron, D. C., M.D., Ch.B. Edin. (Med. for Dent. Students) Lectr.
Skerritt, J. H., L.D.S., R.C.S. (Op. Dent. Surg.) Lectr.
Drabble, H. S., M.R.C.S., L.R.C.P. Anæsthetist.
4 other Clin. Dental Teachers.

Adult Education

Tutors: 7 members of the Staff and 5 others.

AFFILIATED INSTITUTIONS

Barnsley Technical School and Scunthorpe Central School and Evening Technical School. Students proceeding from "Affiliated Institutions" to the Univ. to take courses for an Honours degree in or for an Associateship in Engineering or Metallurgy may receive certain concessions.

GENERAL INFORMATION

University College, Sheffield, incorporated by Royal Charter in 1897, was in 1905 merged in the University of Sheffield constituted by Royal Charter in that year. The city being an important centre of steel, electro-plate, glass, and other manufacturing industries, and in the heart of an extensive coal-mining area, students of Engineering, Metallurgy, Mining, Fuel Technology, and Glass Technology have exceptional opportunities.

Library, 80,000 vols. and pamphlets, including collections of books on alchemy and early history of chemistry (J. Spear Parker's), facsimiles of Greek papyri (J. H. Moulton's), literature relating to Polychæte worms (A. T. Watson's), and seventeenth century tracts, plays, etc. (Sir Chas. Firth's); 335 current periodicals. Also Special Applied Science and Glass Technology departmental collections.

Research Department Laboratories include Engineering (mech., civ., and mining), with complete illustrative power-plant, air-compressors, hydraulic appliances, testing machines, special apparatus for high temperature and repeated stress testing, high-speed steel tool-testing lathe, etc., the machine-tool branch being a special feature; Edgar Allen laboratory specially equipped for electrical and magnetic researches and the Jonas laboratory for researches in connexion with materials; Electro-tech. (lighting, traction, power transmission, mining, electro.-chem.), all provided with continuous and alternating currents, provision being made for 12 different combinations for parallel-running; Metallurgical, with plant for experimental melting of steel, including

2-ton Siemens open hearth furnace; ½-ton electric arc furnace, cupola, Kjellin induction furnace, and Ajax-Northrup high-frequency induction furnace, crucible steel-melting house, and equipment for thermal, micrographic, X-ray, and other physical investigations, specially equipped laboratory for electro-deposition of metals; Non-Ferrous, equipped for the lighter Sheffield trades; Glass Technology model factory for dealing with scientific study of glass manufacture on a large scale; Fuel Technology, including an experimental gas-producer, run in connexion with the steel-melting furnace of the metallurgical department, coal-cleaning plant, and specially equipped laboratories for research on coal, combustion, and flame.

OBSERVATORY with 6¼″ equatorial telescope. HOSPITALS available for clinics include 2 general (818 beds), 3 special (841), and Lunatic Asylum (1740 beds).

FACULTIES. (1) Arts, (2) Pure Science, (3) Medicine (including the Dental Department), (4) Law, (5) Engineering (Depts. of Mech., Elec., Civ., and Mining E., Fuel Tech., Glass Tech.), and (6) Metallurgy (Ferrous and Non-Ferrous). Deans: (1) Prof. Forster (Greek), (2) Prof. Wynne (Chemistry), (3) Prof. Douglas (Pathology), (4) Prof. Trotter, (5) Prof. F. C. Lea, (6) Prof. Desch. There is a University Training College Department for Teachers for elementary, secondary, and continuation schools.

MATRICULATION. See Appendix XXI.

DEGREE COURSES. 3 yrs.—B.A. (with Honours in Archit.—5 yrs., including 2 in an Architect's office), B.Sc., LL.B. (Graduates of a Univ. of the U.K. need only attend courses for 2 yrs., if they have pursued a course for 2 yrs. at some approved institution), B.Met. (3 yrs.' evening courses may be taken by students of 20 yrs. of age in lieu of the 2nd and 3rd yrs.' day courses), B.Eng. ("Sandwich" course 4 yrs.), B.Sc.Tech. ("Sandwich" course 4 yrs.); 5 yrs. (including 3 in the Univ.)—M.B., Ch.B.; 5½ years—B.D.S.

Attendance on approved courses at a Univ. or Coll. recognized for the purpose may be accepted as equivalent to such courses in the Univ. The Univs. of Paris, Caen, Besançon, Grenoble, and Leipsic have been recognized in the Faculty of Arts and the Univ. contributes towards expenses of undergraduates spending a term there. Courses in Chem., Phys., and Zool. at Univ. Coll., Nottingham, qualify for entrance for the 1st M.B., Ch.B.

A Secondary Schools Council, including, in addition to members of the Univ. staff, representatives of local education authorities and school staffs, keeps the Univ. in touch with secondary educn.

HIGHER DEGREES. Obtainable by Bachelors of 1 yr.'s standing—M.A., M.Sc., LL.M., M.Eng., M.Sc.Tech., M.Met., M.D., Ch.M., M.D.S.; 5 yrs.—Litt.D., D.Sc., LL.D., D.Eng., D.Sc.Tech., D.Met.; open to graduates in Arts of any Univ. of the U.K. after 2 yrs., to graduates of Faculties other than Arts after 3 yrs., of advanced study or research in Sheffield—M.A.; open to graduates in Science of any Univ. of the U.K. after 2 yrs. of advanced study or research in Sheffield—M.Sc.; Ph.D., v. p. 17.

DIPLOMAS. Archit., 5 yrs. (including time spent in an Architect's office); Modern Lang. Teaching (graduates in Arts or others of similar attainments in the Lang.), 1 yr. course; Educn. (after graduation), 1 yr. (special facilities for Pedagogical research); Domestic Science, 2 yrs.; L.D.S., 4 yrs.; Glass Technology, 3 yrs. (for those with 2 yrs.' practical experience, 2 yrs.); Associateship in Engin., 3 yrs. (Works Pupils and Evening students, 4 yrs.); Associateship in Iron and Steel or Non-Ferrous Metallurgy, 3 yrs. (evening students, 4 yrs.); Mining, 4 yrs. (1st year, full-time at the University, October

to June inclusive ; other years 6 mos. in Colliery and 6 in Univ. ; exemption from first yr. obtainable through examn. The Dipl. enables a student to sit for the examn. for a colliery manager's certif. after 5 yrs.' total training, including the time spent in the Univ.) ; Fuel, 4 yrs. (for those with 1 yr.'s experience in a Works Fuel Dept., 3 yrs) ; exemption from first yr. in special cases.

Certificates in Architecture (3 yrs.) ; Works Pupils in Engineering (3 yrs.) ; Electricity applied to Mining (2 yrs. Saturday afternoons) ; Glass Technology (3 yrs.).

FEES. Matricn. £2. Registn. 21s. or 25s. Tuition for degree courses (approximate) : B.A., £23 : 15s. p.a. ; B.Sc., £30 p.a. ; LL.B., about 11 gs. p.a. ; B.Eng., B.Met., B.Sc.Tech. (Glass or Fuel), 37½ gs. p.a. ; "Sandwich" course for B.Eng., 4 yrs., £29 : 10s. p.a. ; M.B., Ch.B., £190 for 5 yrs.' course, including hospl. fees ; B.D.S., £225 for 5 yrs.' course including Mech. Dent. Examns., Interm., £2 ; Final, Pass Degree, £2 ; Honours, £3 (M.B., Ch.B. or B.D.S. examns., £6 each of 3). Degree Fee, £5.

SCHOLARSHIPS, ETC., FOR GRADUATES. Sorby Research Fellowship (administered by Royal Society) for research in Sheffield Labs., about £500 p.a. for 5 yrs., renewable ; Alfred Tongue Scholp., £100 for 1 yr. for research in Engin., Met., or Chem. ; George Senior Fellowships, £125 p.a., 2 offered annually for research, one in Engin. and one in Met. ; 4 Styring Research Scholps., £100 p.a. for research in ferrous and non-ferrous metals ; Cutlers' Company Scholp., £100 p.a. for 2 yrs. ; several others of from £50 to £100.

Herbert Hughes *Travelling Scholarships* in Spanish, £25 each, are for one month of Study in Spain during the long vacation.

RESIDENCE, ETC. Stephenson Hall, for men ; fees per session, £90. Univ. Halls for women, Oakholme, Tapton Cliffe, and Endcliffe House, £51 to £75 per session. A list of supervised Lodgings is maintained ; board and lodging cost from 30s. to 50s. per week. Athletics ground, 15½ acres. The Union Rep. Council takes a leading part in the Social life of the Univ. Separate Students' Unions for men and women.

There is an OLD STUDENTS' assocn. which publishes periodically lists giving addresses, occupations, honours, etc.

UNIVERSITY EXTENSION work includes Tutorial classes, Free Extension Lectures, Collaboration (for Adult Educn. Lectures) with the Sheff. Educn. Committee.

Evening Classes are conducted under the direction of the Senior Lecturer in Mechanical Engineering, in General Science, Engineering, Metallurgy, Mining, Fuel, and Glass Technology, Building and Manual Training, during the 6 months, Oct. to April. 24 additional lecturers and teachers are employed on this work besides the regular staff. For notes on the extent to which these classes are recognized as qualifying for degrees, etc., see v. *supra*—Degrees Diplomas.

Evening Classes are also provided in Greek, French, Russian, Spanish, Philosophy, Economics, Secretarial Practice, Acctcy., Law, Music, and Archit.

PUBLICATIONS. *Calendar* (Oct.), 5s. ; *Floreamus*, a Chronicle pubd. at end of each term, annual subs., 2s. (the 11 completed vols. give a full history of the Coll. and Univ., with portraits, etc.) ; Annual Report in Nov.

THE YEAR 1924–25

BENEFACTIONS. Donations to New Buildings and Endowment Fund, £14,785.

NEW BUILDINGS, ETC. Endcliffe Univ. Hall for Women Students. Alterations in Library providing additional accommodation for 30,000 vols.

NEW POSTS. Lectr. in French; Asst. Lectrs. in Spanish and Zoology; Combined posts—Demr. in Pathology at the Univ. and Asst. Pathologist to (1) Royal Hospital, and (2) Hospitals for Women and Children; Demr. in Physiology; Research Assts. in Mining Engineering, in Fuel Technology, and in Metallurgy.

ALTERATIONS IN THE REGULATIONS for the Mining degree and diploma courses. Students will spend the whole of the first year of the course at the Univ., and during the other 3 years spend 6 months at the Univ. and 6 at a colliery. Formerly they spent 6 months of the first year at the Univ. and 6 months at a colliery.

RECOGNITION OF COURSES. Mexborough Secondary School and Worksop College (courses in Maths., Physics, and Chem. qualifying students who intend to read for Honours B.Sc. to take the Intermediate examn. in these subjects at entrance to the Univ.); Univs. of Besançon and Grenoble (approved course in Arts Faculty).

RETIREMENT. Prof. A. Denny. RESIGNATIONS. Prof. D. Hay; E. F. Baxter (apptd. Lectr. in Univ. of Durham); T. Jack (Inspector under Board of Educn.); P. Morand (Asst. Prof., Univ. of Minnesota); E. M. Watson (Univ. of Western Ontario); F. W. Hodkin. DEATHS. L. W. Cole, E. H. Crapper, J. Colburn.

STUDENTS. Full-time, preparing for first degree, 483 (including women—191); graduates, 36 (w.—2); total full-time, 698 (w.—252). Part-time, preparing for first degree, 12 (w.—2); graduates, 6 (w.—2); total part-time, 36 (w.—5). Occasional, 88 (w.—13). Taking courses not of a Univ. standard, 1326 (w.—6). Twelve students (9 of them women) obtained grants for attending courses in France. Four obtained travelling scholarships and attended summer courses in Spain. One (graduate) scholarship holder studied at Prague. DEGREES OBTAINED: B.A., 51 (w.—36); B.Sc., 38 (w.—10); M.B., Ch.B., 16 (w.—5); LL.B., 2; B.Eng., 19; B.Sc.Tech., 2; B.Met., 1; M.A., 30 (w.—24); M.Sc., 23 (w.—3); LL.M., 2; M.Eng., 10; M.Sc.Tech., 1; D.Sc., 2; M.D., 1 (w.); Ph.D., 1.

UNIVERSITY EXTENSION, ETC. Tutorial Classes, 39, with 645 students (w.—181).

UNIVERSITY OF WALES, CARDIFF

VISITOR AND PROTECTOR—H.M. THE KING.

CHANCELLOR—H.R.H. THE PRINCE OF WALES.

PRO-CHANCELLOR—Rt. Hon. LORD KENYON, K.C.V.O.

VICE-CHANCELLOR—for biennium ending Aug. 31, 1927, Principal, T. FRANKLIN SIBLY, D.Sc., Univ. College of Swansea.

WARDEN OF THE GUILD OF GRADUATES—FRANCES MARY REES, B.A.

CLERK OF THE GUILD OF GRADUATES—JOHN HUGHES, M.A.

TREASURER OF THE GUILD OF GRADUATES—F. E. REES, B.Sc.

DEAN OF THE FACULTY OF MEDICINE—Prof. T. GRAHAM BROWN, D.Sc., M.D.

DEAN OF THE FACULTY OF THEOLOGY—Rev. Prof. J. YOUNG EVANS, M.A., B.D.

REPRESENTATIVE IN PARLIAMENT—ERNEST EVANS, B.A., LL.B.

REGISTRAR—D. B. ANTHONY, M.A., University Registry, Cathays Park, Cardiff.

SECRETARY TO THE COUNCIL—JENKIN JAMES, O.B.E., M.A.

CONSTITUENT COLLEGES

UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH.

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR.

UNIVERSITY COLLEGE OF S. WALES AND MONMOUTHSHIRE, CARDIFF.

UNIVERSITY COLLEGE OF SWANSEA.

ASSOCIATED THEOLOGICAL COLLEGES

UNITED THEOLOGICAL COLLEGE, ABERYSTWYTH AND BALA. At *Aberystwyth*: Principals—Owen Prys, M.A., D.D., Prof. of *Syst. Theol.* and *Philos. of Religion*; J. O. Thomas, M.A., D.D. (Acting Principal), Prof. of *N.T. Greek* and *Exegesis*. Other Profs.: J. Y. Evans, M.A., B.D., *Eccl. Hist.*; E. N. Jones, M.A., *Hebrew* and *O.T. Exegesis*; W. Porter, M.A., Litt.D., *Bib. Lit. and Theol.*; R. Morris, M.A., B.D., *Hist. of Christ. Doct. and of Religion in Wales.* At *Bala*: Principals and Profs. of *Past. Theol.*—David Phillips, M.A., and D. Williams, M.A.

BANGOR, The Baptist and Congregational Jt. School of Univ. Theol. Studies. Principal J. T. Evans, M.A., B.D., *Hebrew and O.T. Canon and Exegesis*; Prof. J. Jenkins, M.A., B.Litt., *N.T. Canon*, etc.; Principal T. Rees, M.A., Ph.D. Lond., B.A. Ox., *Christ. Doct.*, etc.; Prof. J. M. Jones, M.A. Ox., B.A. Lond., *Ch. Hist.*, etc.

BRECON, The Memorial Coll. Principal—T. Lewis, M.A., B.D., Prof. of *Hebrew*. Other Profs.: D. M. Edwards, M.A., D.D., *Dogmatics*, etc.; Jos. Jones, M.A., B.D., *Greek*, etc.; John Evans, B.A., *Ch. Hist.*

CARDIFF, The S. Wales Baptist Coll. Principal—J. M. Davies, M.A., Prof. of *Philos.*, *Bib. and Hist. Theol.*, etc. Other Profs.: T. W. Chance, M.A., B.D., *Ch. Hist.*; T. H. Robinson, M.A., D.D., *Hebrew*, etc.; J. Griffiths, B.A., B.D., *Greek Test.*, etc.

CARMARTHEN, The Presb. Coll. Principal—W. J. Evans, M.A., Lectr. in *Classics*, etc. Other Lectrs.: M. B. Owen, B.A., B.D.; J. O. Stephens, B.A., B.D.; Emrys Jones, B.A., B.D., B.Litt

GENERAL INFORMATION

The Univ. was founded by Charter, 1893. The teaching for initial degrees is undertaken by the constituent and associated Colleges, and matriculation in the Univ. is open only to students of those Colleges: in the case of an associated College, only to students who are graduates of a Univ. of the United Kingdom or of *St. David's College, Lampeter*. The Univ. prescribes conditions under which it awards initial degrees to students of the Colleges and conducts the final examns. An Academic Advisory Committee deals with the conditions on which School Leaving certificates are accepted by the Univ. for matriculation, and as relieving a student from repeating in College work done in Secondary Schools, and with other matters lying in the borderland between School and Univ.

As the result of an inquiry held by a Royal Commission in 1916–1918, a Supplemental Charter was granted to the Univ. in 1920, which introduced many important changes, including: reconstruction of the Univ. Court, a deliberative and legislative body, with 263 members, of whom a little over a half are representatives of Local Education Authorities; institution of a Univ. Council, as the executive and administrative body of the Univ., controlling the finance and distributing all the funds provided for Univ. education; provision of such funds from a penny rate levied throughout Wales and Monmouthshire, supplemented by an equivalent grant from the Treasury; larger freedom for the constituent Colleges (now increased to four, by the inclusion of Swansea) in the control of the Courses of Study and in the conduct of their own examns. for initial degrees, Univ. Examiners now taking part only at the final stages; development of a National School of Medicine in connexion with Cardiff College; new Boards for special studies, such as the Board of Celtic Studies and the Council of Music; Univ. Press Board; Univ. Extension Board providing an enlarged scheme for extra-mural instruction; Appointments Board.

DEGREES. B.A., M.A., Ph.D., D.Litt.; B.Sc., M.Sc., Ph.D., D.Sc.; B.Mus., M.Mus., D.Mus.; LL.B., LL.M., Ph.D., LL.D.; M.B., B.Ch., M.D., M.Ch.; B.D., D.D.

The minimum period of study for a first degree is 3 yrs. In Music the 3rd yr. may be in any approved Coll. of Music. The degree in Med. is only open to a graduate in Arts or Science of some British or approved colonial or foreign Univ.; the period of qualification for it is 6 yrs., of which the last 3 may be spent in an approved School of Med. in the U.K. or in one of the Univs. of Paris, Berlin, Vienna, or the Johns Hopkins Univ. The degree of B.D. (3 yrs.' course) is post-graduate; the scheme of study is pursued in one of the Associated Theol. Colls. (v. *supra*). The scheme of study for an Honours degree in Arts, Science, or Law ordinarily covers 4 years. The M.A., M.Sc., and LL.M. may be awarded to graduates of other Univs. approved for this purpose who pursue a scheme of research for at least 2 yrs. in one of the constituent Colls. As regards Ph.D., see p. 17.

Diplomas in Educn. (post-grad. Certif. and Diploma); Public Health (D.P.H.); Tuberculous Diseases (T.D.D.).

FEES: Matricn., £2; examns. qualifying for Bachelor degree, from £6: 15s.; Master, £8; Ph.D., £12; higher Doctorates, £20.

SCHOLARSHIPS, ETC., FOR GRADUATES. The Univ. has funds amounting to £4000 p.a. for the encouragement of research. In addition to 6 Fellowships, it awards studentships on the nomination of the Colls. to students who after graduation in Arts or Science engage in work preparatory to research for 1 or 2 yrs. Grants to assist research into Welsh language, institutions, etc., are made, preferably to members of the Univ., from T. Ellis Memorial Fund (capital £1563). Grants, prizes, or exhibitions to encourage advanced study or research in Law and Tuberculosis are made from the Sir Samuel Evans Memorial Fund (capital £1060) and the Cecil Prosser Research Scholarship Fund (capital £2000) respectively.

PUBLICATIONS: *Calendar* (Oct.), 4s. Courses in Div. and Matricn. and Degree Regns., free. Matricn. Examn. Papers, 6d. B.D. Questions, 6d. Degree Papers, Arts 6s., Science, 5s. Bulletin of Board of Celtic Studies, 5s. Publns. of the Council of Music. Publications of the Univ. Press Board.

THE YEAR 1924–25

BENEFACTIONS. Anonymous gift of £10,000 for Post-graduate research. Endowment by Sir Ewen J. Maclean of a prize for Obstetrics and Gynæcology.

COUNCIL OF MUSIC. 3 full-time Trios are now permanently engaged at Aberystwyth, Bangor, and Cardiff Colleges. The Council co-operated with Aberystwyth in arranging a Sixth Orchestral Festival and with Bangor College in the production of the "Matthew Passion." The number of Lecture Concerts given by the Trios is now 675, of which 104 were given during 1924–25. The newly formed Welsh Symphony Orchestra instituted under the auspices of the Council has now a membership of 128 performers. The number of Gramophones and Melody Lecture Records distributed by the Council is 380. A special conference of the Central Welsh Board and of the Council was held in Dec. 1924 to consider the whole question of Music in schools.

EXTENSION BOARD. 56 Tutors, including 8 full-time and 2 partly engaged in College work.

APPOINTMENTS BOARD. Number of students registered, 398; appointments secured, 255.

REGULATIONS for the degrees of M.D., M.Ch. were adopted. For each a general examn. and a specialised thesis are required. A Medal for Obstetrics and Gynæcology was endowed by Prof. Sir Ewen J. Maclean. A Lecture in Health was established, to be given annually in each of the constituent Colleges by the Prof. of Preventive Medicine.

Recognition of part-time research for the Ph.D. was withdrawn. The minimum period of full-time research for it was reduced from 3 years to 2.

A new scheme of study for the B.D. was adopted, making an introductory study of the philosophy of religion, Christian doctrine, Christian ethics, and Church history, as well as the Old and the New Testaments, compulsory for the first of the 3 years. A 3-years' subject in a B.D. scheme was recognized as qualifying for entry on special study for the M.A.

The possibility of external candidature for the M.Sc. by candidates whose initial degree was the B.A., was removed. The conditions of admission of

members of the College staffs to candidature for the degree of Magister and schemes for Honours in Agriculture or in the sciences applied to it, and in Engineering, were under discussion.

It was decided to hold the matriculation examns. in Jan. and June instead of in June and Sept. after 1925–26.

CONFERENCES AND SPECIAL INQUIRIES. The University collaborated with other bodies in promoting inquiries into the position of Welsh in the educational system of Wales, the study of Greek, and the teaching of Art in Wales. A conference was held with Jesus College, Oxford, on the disposal of funds in the hands of the College available for the benefit of Welsh students, and a scheme of post-graduate studentships to be held at Oxford was suggested. The position of the Welsh National School of Medicine in the Univ. was under discussion. In Oct. 1925 it was decided to apply for a Charter for its incorporation as an independent School within the Univ. A report of the Visitors on the Associated Theological Colleges was presented. A conference between the Central Welsh Board and the Council of Music discussed the position of Music in secondary schools in Wales.

STUDY ABROAD. Holders of Univ. Fellowships, etc., studied in Rome (2), and Paris (3). One student studied at Berne and another at Zurich. Two candidates qualified for the M.A. by work in economics and political science in Italy and in Prague respectively.

HONORARY DEGREES CONFERRED. D.Litt.—Emeritus Prof. E. V. Arnold. LL.D.—Rt. Hon. J. H. Thomas, Lord Glanely, Principal W. Edwards, Wm. Edwards. D.Sc.—The Hon. C. G. Bruce. D.D.—Evan Morgan, Prof. D. Miall Edwards. D.Mus.—Mr. Ben Davies. M.A.—Miss M. Collin, Miss Gwenllian Morgan, J. Ifano Jones.

OTHER DEGREES. B.A., 244 (women—127); B.Sc., 163 (w.—38); LL.B., 8 (w.—1); B.Mus., 1 (w.—1); M.B., B.Ch., 4 (w.—1); B.D., 4 (w.—1); M.A., 27 (w.—7); M.Sc., 34 (w.—5); Ph.D., 3 (w.—1); D.Sc., 1.

UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH

PRESIDENT OF THE COURT OF GOVERNORS AND OF THE COUNCIL—Sir JOHN WILLIAMS, Bart., G.C.V.O., M.D., D.Sc.

PRINCIPAL—J. H. DAVIES, M.A.

VICE-PRINCIPAL—Prof. EDWARD EDWARDS, M.A.

GENERAL SECRETARY—J. L. NEWBON, A.L.A.A.

ACADEMIC SECRETARY—G. J. WALKER.

LIBRARIAN—J. D. WILLIAMS, B.A.

PROFESSORS, LECTURERS, ETC.

Agriculture

Griffith, J. J., B.Sc. Prof.
Phillips, R., M.Sc., A.I.C. Lectr.
County Organizers, 7.
Instructors in Horticulture, 4.
Instructresses in Dairying, etc., 8.

Advisory Officers :
Ashby, A. W., M.A. (Hon.) Ox., Agr. Economist and Lectr.
Jenkins, J. R. W., M.Sc., Entomologist.
Davies, D. W., B.Sc., Mycologist.

Agric. Botany
Stapledon, R. G., M.B.E., M.A. Camb. Prof
Sampson, Kathleen, M.Sc. Lond. Lectr.
Tincker, M. A. H., M.A. Camb., M.Sc. Lond. Asst. Lectr.

Plant Breeding Station :
Prof. Stapledon Director.

Investigators :
Jenkin, T. J., M.Sc.
Williams, R. D., M.Sc.
Jones, E. T., B.Sc.
Jones, Martin G., B.Sc.
Davies, Wm , B.Sc.
Beddows, A. R., B.Sc. (Asst.)
Milton, W. B. J., N.D.A.

Agric. Chemistry
Fagan, T. W., M.A. Camb., F.I.C., Chemist Indept. Lectr.
Davies, R. O., M.Sc. Asst. Lectr.

Arabic, v. Hebrew

Botany
Williams, J. Lloyd, D.Sc. (also Spl. Lectr. in Music) Prof.
Jones, S. G., D.Sc. Lectr. & Demr.
Carter, P. W., M.Sc. Asst. Lectr.

Chemistry
James, T. C., M.A. Camb., D.Sc., F.I.C. Prof.
Bury, C. R., B.A., B.Sc. Ox., A.I.C. Lectr.
Hudleston, L. J., B.Sc. Lond., A.I.C. Lectr.

Asst. Lectrs. & Demrs. :
Davies, C. W., M.Sc., A.I.C.
Green, Albert, M.Sc., A.I.C.

Classics
..... (Greek) Prof.
Rose, H. J., M.A. Ox., B.A. McG. (Latin) Prof.
Jenkins, E. D. T., M.A. Ox. Indept. Lectr. (Greek).
Bensly, E., M.A. Camb. Spl. Lectr. (Med. and Renaissance Latin).
Baillie-Reynolds, P. K., B.A. Ox. Lectr. (Ancient Hist.)

Asst. Lectrs. :
Woodward, Miss A., M.A. Lond.
Pope, R. A., M.A. Camb.

Domestic Science
Fisher, Miss N. Instructress.

Economics and Pol. Science, v. also Politics [Prof.
Lewis, E. A., D.Sc. Lond., M.A., D.Litt. (Lectr. in Palæog.)
Rees, J. Morgan, M.A. Lectr.
King, William, M.A. Asst. Lectr.

Education
Chapple, C. R., M.A. Lond. Prof.
Roberts, Dorothy E., M.A. Lectr.
Pinsent, A., M.A. Lond., B.Sc. Lectr.
Hughes, John, M.A. Asst. Lectr.
Jones, Gwenan, M.A , Ph.D. Minn. Asst. Lectr.
Green, G. H., Ph.D., B.Sc. Lond., B.Litt Ox. Asst. Lectr.
Rowlands, M. Gertrude ,, ,,
Jones, Dan R., M.A., A.R.C.A., A.M.C. Art Master.
3 Instrs. in Physical Training and in Needlework.

English Language and Lit.
Atkins, J. W. H., M.A. Camb. and Lond. Rendel Prof.
Winstanley, Lilian, M.A. Manc. Lectr.
Garmonsway, G. N., M.A. Camb. Asst. Lectr.

French Lang. and Lit. and Romance Philol. [Prof.
Barbier, J. L. A., L. ès L. Paris
Thomas, A. B., D. de l'U. Lyon, M.A. Lectr.
Phillips, Eva M., M.A. Asst. Lectr.
Darbelnet, Jean Part-time Asst.

Geography and Anthropology, v. also Ocean.

Fleure, H. J., D.Sc. Prof.
Whitehouse, W. E., M.Sc. Lectr.
Harris, Susan Asst. Lectr.

Geology [Prof.
Pugh, W. J., O.B.E., B.A., F.G.S.
Challinor, J., M.A. Camb., F.G.S. Lectr.
Platt, J. I., M.Sc. Manc., F.G.S. Asst. Lectr.

German

Evans, David, M.A. Indpt. Lectr.
Rees, Hermia, M.A. Asst. Lectr.
Haferkorn, R., D.Phil. Leip. Part-time Asst.

Hebrew and Arabic

..... Prof.

History, v. also Classics

Edwards, Ed., M.A. Camb. and Lond. Prof.
Jane, L. C., M.A. Ox. Lectr.

History, Colonial [Prof.
Roberts, T. Stanley, M.A. Camb.

Law, English [Prof.
Levi, T. A., M.A., B.C.L. Ox., LL.B. Lond., Barr.-at-Law

Asst. Lectrs.:
Van Druten, J. W., LL.B. Lond.
Jenkins, H. J. S., M.A., B.C.L. Ox.
Lewis, T. Ellis, B.A., LL.B.

Logic and Philosophy

Jones, W. Jenkyn, M.A. Camb., B.A. Lond. Prof.
Reid, L. A., M.A. Edin., Ph.D. Asst. Lectr.

Mathematics, Pure and Applied

Schott, G. A., B.A. Camb., D.Sc. Lond., F.R.S. Prof.
Morton, V. C., M.A. Ox. Lectr.
Sutton, W. G. L., B.A. Ox. Asst. Lectr.
Williams, D. R., M.A. ,, ,,
Lewis, Thos., M.Sc. ,, ,,

Music, v. also Botany [Prof.
Davies, Sir Walford, Mus.D. Camb., LL.D. Leeds, F.R.C.O.
Williams, Prof. J. Lloyd, D.Sc. Spl. Lectr.
de Lloyd, David, Mus.D. Dub., B.A., Mus.B. Lectr.
10 Assts.

Oceanography

Jenkins, J. Travis, B.Sc. Lond., Ph.D. Kiel, D.Sc. Hon. Lectr.

Palæography, v. Econ.

Philosophy, v. Logic

Physics

Owen, Gwilym, M.A. Camb., M.Sc. Manc., D.Sc. Liv. Prof.
Tunstall, N., B.Sc. Manc. Lectr.

Asst. Lectrs. & Demrs.:
Mandell, W., B.Sc. Lond.
Davies, R. M., B.Sc.

Politics, Internat.

Webster, C. K., M.A. Camb. Wilson Prof.
Herbert, S., M.A. Lectr.

Welsh [Prof.
Parry-Williams, T. H., M.A. Wales, B.Litt. Ox., Ph.D. Freib.
Lewis, Timothy, M.A. Manc., B.A. Reader (Celtic Philol. and Palæog.).

Welsh Literature

Jones, T. Gwynn, M.A. Prof.

Zoology, v. also Ocean.

Laurie, R. D., M.A. Ox. Prof.
Watkin, E. E., B.Sc. Asst. Lectr.
Lewis, E. Aneurin, M.Sc. Part-time Asst. Lectr.
Morgan, D. O., B.Sc., from Research Inst. of *Helminthology*, Attached.

University Extension

Morgan, Herbert, M.A. Ox., B.A. Director of Extra-mural Studies.
14 Tutors.

GENERAL INFORMATION (v. also p. 226)

Founded in 1872, the College was incorporated by Royal Charter in 1889, and is a constituent College of the Univ. of Wales. Its main building and Students' Hostels are on the sea front, facing Cardigan Bay.

LIBRARIES. College, 50,000 vols., including the collection of Sir John Rhys. Access to the National Library of Wales, founded in 1907, 420,000 vols., rich in Welsh and other Celtic books and MSS. MUSEUMS: Archæol., Bot., Chem., Ethnog., Geog., Geol., Zool., Gallery of Crafts. The Chemistry LABORATORIES, erected in 1907, are the most complete in Wales. Agric. Expl. and Plant-breeding Stations and Training Farm.

FACULTIES. Arts, Science, Law, Music. *Departments*: Agriculture, Teaching (Elem. and Secondary), Art and Handicraft, Extra-mural, Dom. Sc., Phonetics. A special feature is the ample provision for instruction and research in Agriculture. A Chair of International Politics was founded in 1919.

DEGREE courses in Arts, Science, Law, Music.

College Diploma courses: Associateship, 2 yrs.; Assoc. in Agric., 3 yrs.; Dairying, 2 yrs.; Music, 2 yrs.; Geography, 1 yr.; Art, 1 yr.; Handicraft, 1 yr.

Courses in Science meet the requirements of the first year of Medical study and the examns. of the Pharmaceutical Society.

Post-graduate courses (1 yr.) for Teachers (Elem. and Secondary), and in Agric.

RESEARCH work is systematically carried on in Agric. Botany and Agric. Chem. (whole-time Research Botanist, Chemist, Entomologist, and Mycologist), Chem., Geol., Geog., Physics, Zool., English, Welsh, Philos., Maths., Economics, History.

FEES for tuition in Arts, £15 per session; Science, £20; Registration, £1; Research students, 6 to 10 gs.

SCHOLARSHIPS FOR GRADUATES. 4 for Research, value £27 to £70, open to Colonial and Foreign students as well as to students of the College. *See* also under Univ. TRAVELLING SCHOLARSHIPS for visiting Continental institutions, average, £20 to £30; total, £500. RESEARCH STUDENTSHIP, £200 in Dept. of International Politics.

RESIDENCE. Board and lodging at Women Hostels: 50 to 62 gs. per session. Accommodation in Hostels for 300 women.

UNIVERSITY EXTENSION. Local lectures and short courses in Agric. subjects; Travelling Dairy School; Tutorial Classes in Econ., Lit., Hist., Welsh Psychology, etc.; Summer School annually in Aug.

AFFILIATION. The Coll. is affiliated to Ox. and Camb., and is recognized by Edin. and N.U.I., by the R.C.P. and S. Eng. and Edin., the F.P. & S. Glas., the R.C.P.I., the Inst. Chem., and the Surveyors' Instn.

PUBLICATIONS: *Reports* (Jan.), 1s. 6d.; *Aberystwyth Studies*; Students' Magazine, *The Dragon*; Inaugural Lectures.

THE YEAR 1924–25

BENEFACTIONS. Misses G. E. Davies and M. S. Davies, for Edward Davies Chemical Laboratories, £1250 each; Sir Laurence Philipps, for Plant-breeding Station, £1000; S. Vestey, for Zoological Dept., £150; J. Davies-Bryan, for

Music Scholarship, £50; for Memorial (Miss Cranogwen Rees) Scholarship open to Welsh-speaking girls born in Cardiganshire, £570; for Visitors' Scholarship, £42; other donations, £35.

RESIGNATIONS. J. West (Physics), apptd. research Fellow at Manchester Univ.; W. J. Webber (Maths.), apptd. lectr. at Toronto Univ.; F. T. H. Fletcher (French), apptd. lectr. at Birmingham Univ.; Miss C. P. Tremain, Senior Warden, Women's Hostel, succeeded by former Warden of Langdale Hall, Manc.

OTHER IMPORTANT CHANGES. Requirements for B.A. were modified so that Latin is no longer compulsory for all Arts students. It was decided to close the Hostel for Men Students, which has been in existence for 25 years, on financial grounds.

STUDENTS. Full-time, preparing for a first degree, 546 (including 225 women); graduate, 26 (women—3); taking courses not of university standard, 168 (w.—91); total, 740 (w.—319). Occasional, 9 (w.—2). DEGREES OBTAINED. B.A., 78 (w.—36); B.Sc., 44 (w.—11); LL.B. 8 (w.—2).

UNIVERSITY EXTENSION. Tutorial class students, 640 (w.—187).

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR

PRESIDENT OF THE COURT OF GOVERNORS AND CHAIRMAN OF THE COUNCIL—Rt. Hon. LORD KENYON, K.C.V.O.

PRINCIPAL—Sir HARRY R. REICHEL, M.A., LL.D.

SECRETARY AND REGISTRAR—W. P. WHELDON, D.S.O., M.A., LL.B.

BURSAR—RICHARD WILLIAMS.

WARDEN OF THE WOMEN STUDENTS—MURIEL O. DAVIS.

PROFESSORS, LECTURERS, ETC.

Agriculture

White, R. G., M.Sc. Leeds Prof.
Roberts, E. Jones, B.Sc. Lectr.
Roberts, J. A. F., B.A. Camb., B.Sc.
Hon. Lectr. (*Animal-breeding*).
Montgomerie, R. F., B.Sc., M.R.C.V.S.
Vet. Advisory Officer.
Lectrs. in Bldg. Constn., Book-keeping, Vet. Hygiene.
County Staffs: 5 Organizers; Instructors in Cheesemaking, Dairying, Horticulture and Poultry-keeping.

Agric. Botany

Roberts, R. Alun, B.Sc. Adviser.
Whitehead, T., M.Sc., A.R.C.S. Adviser in Plant Pathology.

Agric. Chemistry [Lectr.

Robinson, G. W., M.A. Camb.
McLean, W., B.A., B.Sc., A.R.C.Sc.I., A.I.C. Lectr.
Williams, Rice, M Sc. Asst. Lectr.

Agric. Entomology [Adviser.

Walton, C. L., M.Sc, Ph.D.

Botany

Thoday, D., M.A. Camb. Prof.

Davey, A. Jane, M.Sc. Lond. Lectr.

Chemistry

Orton, K. J. P., M.A. Camb., Ph.D., F.R.S., F.I.C. Prof.
Watson, H. B., B.Sc., A.I.C. Lectr.
Soper, F. G., Ph.D., A.I.C. Lectr. in Physical C.

Asst. Lectr. & Demr.:

Bradfield, A. E., Ph.D.

Classics

Hudson-Williams, T., M.A., D.Lit. Lond. (Greek) Prof.
Thomson, H. J., M.A., D.Litt. St. And. (Latin) Prof.
Whatmough, J., B.A. Camb., M.A. Manc. Lectr.
Lees, Miss M. E., M.A. Manc. (Latin) Asst. Lectr.

Economics

Higgs, H., C.B., LL.B. Lectr.

Education

Archer, R. L., M.A. Ox. Prof.
Paterson, Alice, M.A. Edin., Ph.D. Jena Lectr.
Thomas, Miss M. Lectr.
Williams, Ivor, B.Sc. Asst. Lectr.
Hamilton, E. R., M.A., B.Sc. Asst. Lectr.
Instructors in Drill, Handwork, and Rural Sc.

English Lang. and Lit.

Wright, H. G., M.A. Manc. Prof.
King. R. W., M.A. Lond. Lectr.
Collins, A. S., M.A. Lond. Asst. Lectr.

Forestry

Thomson, T., M.Sc. Lectr.

French and Rom. Philol. [Prof.

Fynes-Clinton, O. H., M.A. Ox.
Cariou, Mlle. H., L. ès L. Asst. Lectr.

German and Teut. Philol.

Purdie, Edna, M.A. Liv. Lectr.

History

Lloyd, J. E., M.A., D.Lit. Ox. (Lectr. in Church H.) Prof.
Turberville, A. S., M.A., B.Litt. Ox. Lectr.
Shankland, Rev. T., M.A. (Mod. Welsh H.) Reader.
Dodd, A. H., B.A. Ox. Lectr.

Logic and Philosophy

Gibson, J., M.A. Camb. Prof.
Lewis, Miss G. A., M.A. Lectr.
Stout, A. K., B.A. Ox. Asst. Lectr.

Mathematics

Bryan, G. H., Sc.D. Camb., F.R.S. Prof.
Phillips, E. G., B.A. Camb., M.Sc. Manc. Asst. Lectr.
Curnow, H. J., B.Sc. Jr. Lectr.

Music

Davies, E. T., F.R.C.O. Director.
5 Executants and Teachers.

Philosophy, v. Logic

Physics

..... [Prof.
Mainstone, P. A., M.Sc. Lectr.
Williams, W. Ellis, B.Sc. Lectr. in Applied Electricity.

Asst. Lectr. & Demr.:

Jones, H. Irvon, B.Sc.

Semitic Languages

Robertson, E., M.A., B.D., D.Litt. St. And. Prof.
Evans, Principal J. T., M.A., B.D. Spl. Lectr.

Theology, v. also Semitic

Spl. Lectrs.:

Principal Rees and Prof. J. M. Jones of the Congregational College, Bangor (v. p. 225).
Jones, G. Basil, M.A. (Philos. of Religion).
Jenkins, J. (Gwili), M.A., B.Litt.

Welsh

Morris-Jones, Sir J., M.A. Ox., LL.D. Prof.
Williams, Ifor, M.A. Prof. of W. Lit.
Parry, R. W., M.A. Asst. Lectr.

Zoology

White, P. J., M.B. Edin. Prof.

Thorpe, Laura, M.Sc. Liv.
Asst. Lectr.

University Extension

Whole-time Lectrs.: Roberts, R. Silyn, M.A.; Jones, E. J., M.A.; Richards, R., B.A. Half-time: Dodd, A. H., B.A.; Parry, R. W., M.A. Many other members of the Staff give single courses or combine in giving a series.

GENERAL INFORMATION (v. also p. 226)

This College, constituted by Royal Charter in 1885, was made a constituent College of the Univ. in 1893.

The Physics and Chemistry buildings and the Biology laboratory were opened in 1885, and extended in 1892 to provide for Zoology and Agriculture, and in 1911 the Arts dept. was removed to a site, in the heart of the city, of over 10 acres, given by the Corporation. The buildings, including the Great Hall, were opened in 1911 by King George.

LIBRARIES. General, 50,000 vols. (Theology a strong feature). Welsh, 15,000, including the largest and best-equipped collection of Welsh periodicals in existence. MUSEUMS include special collections of fish, shell-fish, and fishing gear, Welsh antiquities, and Roman finds from Segontium (Roman fort at Carnarvon). FARM, 675 acres, chiefly sheep pasturage. Dairy.

Special facilities are offered for research in Welsh Language and Literature, Political, Social, Economic, and Religious History of Wales, and allied subjects.

COURSES. B.A. degree courses include among others a "special scheme of study based on the idea of citizenship." There are courses in Theology for B.D. degree, and full courses for the B.Sc. in Agric. and Rural Economy, Forestry, and Applied Electricity, as well as in Pure Sc. College *Diploma* courses in Agric. and in Estate Management (3 yrs.), and in Forestry and Elec. Engineering (2 years). The Agric. course is recognized by the Surveyors' Instn. as qualifying for Students' Proficiency examn. Courses for College Certificates (2) in Music. Other courses: First year of Med. study; 1 yr. post-graduate course for Teachers (Elem. and Secondary); for Kindergarten Certif.—Elem. 1 yr., Higher 2 yrs. and 1 term. Shorter courses in Agric. and Dairy work by itinerant lecturers.

FEES. Registration, 1 g. per session. Tuition, per session: Arts, £15; Science, £20; Medicine, 1st year (including lab.), £22; Post-graduate courses, non-lab., 6 gs.; with lab., 10 gs.; Agric., etc., diploma course, winter session £15: 15s. (2 terms); Farm Practical Instruction, £5 (or 2 gs. a term). College societies (compulsory), £1: 8s.

SCHOLARSHIPS, ETC., FOR GRADUATES. Several College awards ranging in value from £22 to £50, open to students of the College. Loan fund (£150) for helping poor students to complete courses. *See* also under Univ.

RESIDENCE. Hostels for 35 men (£47 p.a.) and 180 women (£44-£58). Total cost of living in lodgings and tuition in Bangor, from £60 to £75 per session.

UNIVERSITY EXTENSION, ETC. Local lectures in Literature, Econ., and Agric.; small lending libraries; Tutorial Classes in five counties. The Advisers in Agriculture conduct experiments and give expert advice to farmers and others.

PUBLICATIONS. *Calendar* (Sept.), 2s. 6d.; *Students' Handbook*, 1s.; *College Magazine*, one issue per term, 1s.; Prospectus free.

THE YEAR 1924–25

NEW DEVELOPMENTS. New Science buildings approaching completion; new equipment provided for the men's and the women's common rooms and the Arts buildings.

UNIV. EXTENSION. Tutorial classes at 15 centres, Preparatory classes at 6, and Yearly classes at 9. *W. H. Williams* Lectureship: With the consent of the Transport Workers' Union (North Wales Quarrymen's Union) the income of this endowment is to be used for the support of extra-mural work in the quarry centres in North Wales. Several series of *Special Lectures*, open to the public, were given at the College, and an important exhibition of oil-paintings, organized with the help of the National Museum, was held in April and May.

STUDENTS. Full-time, 538 (including women—233); preparing for first degree, 355 (women—150); graduate, 26 (w.—7); others, 157 (w.—76). Occasional, 12 (w.—9). Attending Univ. Tutorial and Preparatory Classes, etc., 678. Degrees obtained: B.A., 55 (w.—31); B.Sc., 34 (w.—7); B.D., 3 (w.—1); M.A., 8 (w.—5); M.Sc., 5; D.Sc., 1.

UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF

PRESIDENT—Sir D. R. LLEWELLYN, Bart.

TREASURER—HENRY GETHIN LEWIS.

PRINCIPAL—A. H. TROW, D.Sc. Lond., F.L.S.

REGISTRAR—D. J. A. BROWN. LIBRARIAN—S. O. MOFFET, M.A. Manc.

PROFESSORS, LECTURERS, ETC.

Agriculture (*Advisory and Research Staff*)

Rees, J., B.A., B.Sc. (A. Botany).
Thompson, H. W., M.Sc. Leeds (A. Zool.).
Bisset, N., M.R.C.V.S., F.Z.S. (Vet. Sc.).

Anatomy

Hepburn, D., C.M.G., V.D., M.D., C.M. Edin. Prof.
Evans, H. T., M.A., D.M. Ox., M.B., B.S., M.R.C.P. Lond. Asst. Lectr. & Demr.
Jones, A. M., M.D., Ch.B. Edin. Demr.

Archæology [Lectr.

Fox, Cyril F., Ph.D. Camb. (Keeper of Dept. of A. in Nat. Museum).

Architecture

Purchon, W. S., M.A. Lond., A.R.I.B.A. Lectr.

Botany

McLean, R. C., M.A. Camb., D.Sc. Lond., F.L.S. Prof.
Crow, W. B., M.Sc., Ph.D. Lond., F.L.S. Lectr.
Quinlan, Christine E., M.Sc., N.U.I. Asst. Lectr. & Demr.

Chemistry, v. also Physiol.

Jones, W. J., D.Sc. Manc., M.Sc., F.I.C., F.Inst.P. Prof.
Perman, E. P., D.Sc. Lond., F.I.C., F.C.S. Asst. Prof.
Bassett, H. Ll., M.A. Camb., B.Sc. Lond., A.I.C. (Organic C.) Lectr.

Cullinane, N. M., M.Sc., Ph.D. N.U.I., A.I.C. Asst. Lectr. & Demr.

Classics, v. also German [Prof.
Norwood, G., M.A. Camb. (Greek)
Freeman, Kathleen, M.A. Asst. Lectr.
Grundy, W. W., M.A. Camb. Prof. (Latin).
Richardson, L. J. P., M.A. Dub. Asst. Lectr.

Economics and Pol. Science
Roberts, W. J., M.A. Ox. Prof.
Evans, R. T., B.A. Asst. Lectr.

Education
Phillips, W., M.A. Prof.
Wheeler, Olive A., D.Sc. Lond., M.Sc. Prof.
Saxby, Ida B., D.Sc. Lond. Lectr.
Smith, Annie Lectr.
Jones, E. J., M.A. Lectr.

Asst. Lectrs.:
Barke, Ethel M., M.A. Dub.
Amos, A. D., B.Sc. Lond.
Thomas, R., M.A.
Flight, Miss E. G. Teacher in Art.

Engineering
Pippard, A. J. Sutton, M.B.E., D.Sc. Bris., A.M.I.C.E., F.R. Aero. S., A.M.I.Mech.E. Prof.
Thomas, S., B.Sc., A.M.I.E.E., A.M.I.Mech.E. Lectr.
Foster, P. F., B.Sc. Lond., A.M.I.Mech.E. Asst. Lectr. & Demr.
Baker, J. F., B.A. Camb. ,, ,,

English Lang. and Lit.
Brett, C., M.A. Ox. Prof.
McLean, Miss C. M., M.A. Edin. Asst. Lectr.
Llewellyn, E. C., B.A. Ox. and Wales Asst. Lectr.

French
Watkin, M., M.A., L. ès L. Ren., Ph.D. Zur., O.I.P. Prof.
Jones, P. Mansell, M.A., B.Litt. Ox. Lectr.
Bouzereau, J. C. M., L. ès L. Lecteur.
Leconte, F., L. ès L. Lectrice.

Geology
Cox, A. H., D.Sc. Birm., Ph.D. Stras., F.G.S. Prof.
Heard, A., M.Sc. Manc., Ph.D., F.G.S. Lectr.
Dingwall, Miss J. M. M., M.A., B.Sc. Edin., F.G.S. Asst. Lectr.

German
Arnold, F. T., M.A. Camb. (Asst. Lectr. in Latin) Lectr.

Histology, v. Physiol.

History [Prof.
Bruce, H., M.A. Ox., F.R.H.S.
Rees, Wm., D.Sc. Lond., M.A., F.R.H.S. Lectr.
Whale, Miss G., B.A. Asst. Lectr.

Hygiene and Public Health, v. *infra*

Law
Davies, E., B.C.L., M.A. Ox. Lectr.

Mathematics
Livens, G. H., M.A. Camb. Prof.
Taylor, D. G., M.A. Camb. and Glas., D.Sc. Glas. Lectr. (Pure M.).
Pope, A. H., B.Sc. Lond. Asst. Lectr.
Hayden, H. A., B.Sc. ,, ,,

Medicine, v. *infra*

Metallurgy
Read, A. A., D.Met. Sheff., F.I.C., F.C.S. Prof.

Asst. Lectrs. & Demrs.:
Jones, W. R. D., M.Sc.
Handford, C., M.Met. Sheff.

Mining [Lectr.
Price, S. W., A.R.S.M., M.I.M.E.
Chubb, C. S., B.Sc. Asst. Lectr.

Music
Evans, D., Mus.D. Ox. Prof.
Lloyd, J. Morgan, Mus.B. Dub. Asst. Lectr.

12 Teachers.

Philosophy, Logic and [Prof.
Scott, J. W., M.A., D.Phil. Glas.
Thorburn, J. M., M.A., B.Sc Edin., B.A. Lond. Asst. Lectr.

Physics
Selby, A. L., M.A. Ox. Prof.
Dunbar, R. T., M.A., B.Sc., Ph.D. Edin. Lectr.

Asst. Lectrs. & Demrs.:
Young, C. L., B.Sc.
Harker, G. H., B.A. Camb.
Crackston, J. E., M.Sc. Liv.

Physiology
Brown, T. Graham, M.D., D.Sc. Edin. Prof.
Daly, I. de B., M.A., M.D. Camb. Lectr. (Expl. P.).
Burlend, T. H., M.A. Camb., B.Sc. Lond. (Histol. & Embryol.) Lectr.
Pryde, J., B.Sc. St. And., M.Sc. (Lectr. in Physiol. Chem.) Asst. Lectr. and Demr.
Shaxby, J. H., D Sc. Lond., F.Inst.P. Lectr. (Special Sense P.).
Peterson, J. M., B.Sc. Aberd. Asst. Lectr. & Demr.

Semitic Languages
Robinson, T. H., M.A. Camb., D.D. Lond. Lectr.

Welsh
Gruffydd, W. J., M.A. Ox. Prof.
Williams, G. J., M.A. Asst. Lectr.

Zoology [Prof.
Tattersall, W. M., D.Sc. Manc.
Lloyd, J. H., M.Sc. Birm., F.Z.S. Lectr.
Sheppard, Edith M., M.Sc., F.Z.S. Asst. Lectr. & Demr.

Medicine, Welsh National School of (for subjects of first 2 yrs. —Anat., etc., v. *supra*)

Hygiene and Public Health
Collis, E. L., M.A., D.M. Ox. Talbot Prof. of *Preventive Med.*
Williams, E. Colston, M.D. Lond., D.P.H. Camb. Lectr.
Picken, R. M. F., M.B., Ch.B., B.Sc. Glas., D.P.H. Camb. Lectr.
Morgan, W. Parry, M.A., M.D. Camb., B.Sc. Lond. Lectr. (*Bact. & Parasit.*).
Sugden, J. H., M.Sc. Manc., F.I.C. Lectr. (*Hyg. Chem.*).
Buist, J. J., M.B. Lectr. (Vaccination).

Materia Medica and Pharmacology, v. also Med.
Stevens, W. Mitchell, M.D Lond., F.R.C P. Lectr.
Beatty, J., M.A., M.D. Dub., D.P.H. Asst. Lectr.

Medicine
Kennedy, A. Mills, M.D., Ch.B. Glas. Prof., Dir. of Med. Unit.
Davies, Ivor J., M.D., B.S. Lond. Asst.*
Evans, H. T., M.A., M.D. Ox., M.B., B.S. Lond. Asst.*
Evans, Abel, M.B., B.S. Lond. Asst.
Buist, J. J., M.B. Lond. Lectr. (*Forensic M.*).
Howell, A., M.D. Lond. Lectr.* (*Dis. of Children*).
Beatty, J., M.A., M.D. Dub., D.P.H. (Asst. Lectr. in *Materia Med.*) Lectr. (*Dermatology*).
Goodall, E., C.B.E., M.D., F.R.C.P., B.S. Lond. Lectr. (*Mental Dis.*).

* On Staff of Infirmary and Recognized Clinical Teachers in the Med. School.

Obstetrics and Gynæcology

Maclean, Sir Ewen J., M.D., M.Ch. Edin., F.R.C.P. Prof.

Strachan, G. I., M.D., Ch.B. Glas., F.R.C.S. Asst.

Collins, B. K. Tenison, M.A., M.D., B.Ch. Camb. Asst.

Adams, Mary I., B.Sc, M.B., B.Ch., B.A.O. Belf., D.P.H. Asst.

Pathology and Bacteriology

Kettle, E. H., M.D., B.S. Lond. Prof.

Passey, R. W., M.D. Lectr. (*Pathology*)

Surgery

Sheen, A. W., C.B.E., M.S. Lond., F.R.C.S. Prof. & Dir. of Surg. Unit.

Grant, J. W. Geary, F.R.C.S.* Asst.

Hammond, T. E., F.R.C.S. Asst.

Haycraft, J. B., M.B., Ch.B. Edin., F.R.C.S. Asst.

Cresswell, F. P. S., M.B., B.S., B.Sc. Lond., F.R.C.S. Lectr.* (*Ophth.*).

Davies, D. Leighton, M.D., M.S. Lond., F.R.C.S. *(*Ophth.*).

Thomas, J. W. Tudor, M.B., B.S. Lond., M.B., B.Ch.*

Paterson, D. R., M.D., C.M. Edin. Lectr.* (*Oto - Rhino - Laryngology*).

Smith, S. Alwyn, D.S.O., O.B.E., M.D., Ch.M. Edin. Lectr. (*Orthopædics*).

Greaves, H. Gordon, M.B., B.Ch. Camb. Lectr. (*Anæsthetics*).

Rhys, O. Ll., M.D. Edin. Lectr. (*V.D. and Radiology*).

Evans, T. G., M.D., B.S. Lond., D.M.R.E. Camb. Lectr. (*Physio-Therapy*).*

Evans, Miss Erie, M.B. Lond. Lectr. (*V.D.*).

Jones, A. Mason, M.D. Asst.*

Lewis, Cyril, M.D., C.M. Edin.*

Cook, H. G., C.B.E., M.D., B.S. Lond., F.R.C.S.*

Griffiths, Cornelius A., F.R.C.S.*

Martin, W., M.A., M.B., C.M., B.Sc. Glas.*

Wade, J. O. D., O.B.E., M.B., M.S. Lond., F.R.C.S.*

Harries, D. J., M.D., B.S. Lond., D.Sc., F.R.C.S.*

Tuberculosis

Cummins, S. Lyle, C.B., C.M.G., M.D., LL.D. Prof.

University Extension

Tutors, 23 (including a few members of the College Staff). Joint Secy.—D. J. A. Brown, Regr.

* On Staff of Infirmary and Recognized Clinical Teachers in the Med. School.

GENERAL INFORMATION (v. also p. 226)

Opened in 1883 and incorporated by Royal Charter in 1884, this is now one of the constituent Colleges of the Univ. The Medical School was opened in 1894, the Engineering School in 1896. New College Buildings, containing the Arts and Administrative Blocks and the Drapers' Company's Library, were opened in Cathays Park (wherein the Univ. Offices are also located) in 1909, the Viriamu Jones Memorial Physical Research Laboratory in 1912. Physiological Dept. Buildings were completed and occupied in 1919, and formally opened in June 1921 by the Prince of Wales, who at the same time laid the foundation-stone of the buildings of the Dept. of Public Health and School of Preventive Medicine. In Oct. 1921 the development of the Medical School into the "Welsh National School of Medicine" enabled provision to be made for complete courses for a Degree or other qualification to practise Medicine.

LIBRARY: Drapers' Company's, 54,000 vols. MUSEUMS: Anat., Mat. Med., Path., Zool. The National Museum of Wales (Art, Archæol., Zool., Geol., Bot.) is located in an adjoining building. LABORATORIES: Physical Research, with liquid-air plant, etc.; Engineering (including 100-ton testing machine); and usual Science and Medical teaching and Research labs. The Cardiff Royal Infirmary (between 300 and 400 beds), in which the final studies of the Welsh National School of Medicine take place, is within five minutes' walk of the College. Clinical facilities are available also in other local hospitals.

FACULTIES. Arts, Science, Medicine (Welsh National School of Medicine). *Departments*: Music, Applied Science and Technology, Teaching (Elem. and Secondary); Advisory and Research Dept. in Agric.

COLLEGE DIPLOMAS. Engineering, Metalliferous Mining, Metallurgy; Welsh Lang. and Lit.; Economics and allied subjects; Music; Social Study and Training. In the Applied Science subjects the qualifying scheme of study covers 3 years; in the other subjects, 2 yrs. A Joint Diploma in Coal Mining is granted by the Coll. and the S.W. and Monmouthshire School of Mines, 4 yrs.' residence being required. After a 4 yrs.' course students who desire to specialize in certain subjects can take a post diploma course. A Joint Diploma in Mech. Engin., Marine Engin., or Industr. Chem. is granted by this Coll. and the Cardiff Tech. Coll. after a 3 yrs.' course.

SCHOLARSHIPS (Prospectus obtainable from the Registrar). One of £60 is offered for research by a woman in any faculty, one of £50 (which may be increased by a bonus) for Science research. *See also* under Univ.

FEES. Annual Composition for tuition—Arts, £15; Science, £20; Music, £15; Applied Science, £20 (Non-associated Counties, £30); Medical, £25 to £35; Hospital practice, Perpetual Hospital ticket, £12 : 12s.; Teacher Training, £15 to £20 (Private Students, £35); Research, 6 to 10 gs.; Registration, 1 g. p.a.

RESIDENCE. 2 Hostels for women. Sessional Fees, £65 to £75. Board and lodging in the City can be obtained at about £2 per week.

PUBLICATIONS. *Calendar* (Feb.), 2s.; *Students' Handbook*; *Cap and Gown*.

THE YEAR 1924–25

BENEFACTIONS. £9021 : 3s. for Appeal Fund; £310 : 10s. for General Purposes; £396 : 14 : 6 for Scholarships and Prizes; £10 : 10s. for Library. The Appeal Fund reached £131,700.

NEW DEVELOPMENTS. The Ministry of Agric. has approved a grant-in-aid of the Advisory and Research Dept. in Agric. for 3 years under new conditions. Foundation stone of physics and chemistry laboratories was laid by Lord Glanely.

RESIGNATIONS. G. E. K. Braunholtz, M.A., apptd. Prof. of Comparative Philology at Oxford. RETIREMENT: Prof. Barbara Foxley.

EXTRA-MURAL WORK. Univ. Tutorial Classes 26, with 537 students; Preparatory Tutorial Classes 14, with 351 students. Many members of the College Staff delivered lectures and courses of lectures.

STUDENTS. Full-time, preparing for first degree, 743 (including women—279); graduates, 25 (women—5); total full-time, 1028 (w.—380). Part-time undergraduates, 10 (w.—5); graduates, 1 (w.). Occasional, 45 (w.—9). DEGREES OBTAINED. B.A., 77 (w.—42); M.A., 7; B.Sc., 65 (w.—17); M.Sc., 5 (w.—1); B.Mus., 1 (w.); M.B., B.Ch., 4 (w.—1). Also London degrees: B.Sc., 1; M.B., B.S., 3.

UNIVERSITY COLLEGE OF SWANSEA

PRESIDENT—HENRY FOLLAND.

PRINCIPAL—T. FRANKLIN SIBLY, D.Sc. Lond. and Bris.

REGISTRAR—EDWIN DREW. LIBRARIAN—OLIVE M. BUSBY, M.A. Lond.

PROFESSORS, LECTURERS, ETC.

Biology

Mockeridge, Florence A., D Sc. Lond., F.L.S. Lectr.

Rees, T. Kenneth, M.Sc. Asst. Lectr.

Hilton, Irene A. F., B.Sc. Liv. Asst. Lectr. & Demr.

Chemistry

Coates, J. E., O.B.E., D.Sc. Birm., M.Sc., F.I.C. Prof.

Hinkel, L. E., D.Sc. Lond., F.I.C. Lectr. (Organic C.).

Ayling, E. E., B.Sc. Lond., A.I C. Asst. Lectr.

Butler, J. A. V., M.Sc. Birm. Asst. Lectr.

Classics

Evans, Prof. D. Emrys, B.Litt. Ox., M.A. Prof.

Grube, G. M. A., B.A. Camb. Asst. Lectr.

Hill, H., M.A. Sheff. Asst. Lectr.

Education

Cavenagh, F. A., M.A. Lond. Prof.

Jones, Idwal., M.A. Asst. Lectr.

Engineering

Bacon, F., M.A. Camb., A.M.I.C.E., M.I.M.E., M.I.E.E. Prof.

Isaacs, R. G., M.Sc. Bris., B.Sc. Lond., A.M.I.E.E. Lectr. (Elec. E.).

Fordham, A. A., B.Sc. Lond., A.M.I.C.E., M.I.Struct.E. Lectr. (Civ. E.).

Caswell, J. S., A.M.I.M.E. Asst. Lectr.

English

Thomas, W. D., M.A. Ox., B.A. Prof.

Taig, T., M.A. Glas. Asst. Lectr.

Geology

Trueman, A. E., D.Sc. Lond., F.G.S. Lectr.

Stuart, A., M.Sc. Durh. Asst. Lectr.

History [Lectr.

Hughes, E. E., M.A. Ox., B.A.

Jones, G. Nesta, M.A. Asst. Lectr.

Mathematics

Richardson, A. R., B.Sc. Lond., A.R.C.S. Prof.

Dienes, P., D.Phil. Buda Pest Lectr.

Wilson, R., M.A. Ox. Asst. Lectr.

Keeping, E. S., B.Sc. Lond., D.I.C., A.R.C.S. (M. and Physics) Asst. Lectr.

Metallurgy [Prof.

Edwards, C. A., D.Sc. Manc.

Norbury, A. L., M.Sc. Manc. Lectr.

Pfeil, L. B., M.Sc. Lond., A.R.S.M. Asst. Lectr.

Macnair, P. M., Ph.D. Sheff., B.Sc. Glas. Asst. Lectr.

Modern Languages

Williams, Mary, D. de l'U. Paris, M.A. Prof.

Asst. Lectrs.:

Diverres, P., M.A. Liv., D. ès L. Rennes, Officier d'Académie.

Matthews, Evelyn, M.A.

Philosophy

Heath, A. E., M.A. Camb. Prof.

Physics, v. also Maths.
Evans, E. J., D.Sc. Lond., B.Sc., A.R.C.S. Prof.
Jones, W. Morris, M.A. Camb., M.Sc., F.Inst.P. Lectr.
Wright, L., M.Sc. Sheff. Asst. Lectr.

Welsh
Lewis, Henry, M.A. Prof.
Lewis, Saunders, M.A. Liv. Asst. Lectr.

University Extension
Thomas, P. S., M.A. Staff Tutor.

GENERAL INFORMATION (v. also p. 226)

Incorporated by Royal Charter, dated Jan. 21, 1920, the College was made a constituent College of the Univ. of Wales under the terms of a Supplemental Charter granted to the Univ. on Aug. 13, 1920. The administrative offices, assembly hall, common rooms, and refectory, in addition to some of the Science departments, are accommodated in a mansion in Singleton Park, presented, together with 19 acres of land surrounding it and 15 acres for playing-fields, by the Corporation of Swansea, which also gave £50,000 towards the cost of Science buildings.

Situated in the heart of a district possessing a long and interesting metallurgical history and presenting an unrivalled variety of present-day metallurgical practice, the College offers exceptional advantages for preparation for professional careers in the metallurgical industry. The manufacturers of the district, who contribute largely to the support of the College, give the staff and students ample opportunities of keeping in close practical touch with manufacturing processes in the works. To ensure the closest possible co-operation with the local industries, Advisory Committees in Metallurgy and Engineering have been set up. All of the College laboratories (Physics, Chem., Geol., Biol., Metall., Engin.) are new and well-equipped. They include exceptionally fine experimental plant for instruction and research in combustion engineering.

FACULTIES. Science and Arts. Departments: Metallurgy and Engineering, and Training of Teachers (men and women) for Elem. and Sec. Schools.

COURSES FOR DEGREES, ETC. Courses (3 years) of study are provided in preparation for the degrees of the Univ. in Pure and Applied Science and Arts; also in preparation for the College diplomas in Metallurgy and in Engineering; also complete Prelim. Science Course for medical students and classes in Law for articled clerks. Engineering students are expected, and, where necessary, helped, to obtain practical experience in works during the greater part of the summer vacation. Afternoon visits to works are arranged frequently throughout the session. Occasional lectures are given by experts on the business, administration and managerial side of industrial undertakings.

FEES. For tuition in Pure or Applied Science, £20; Arts, £15; Registration, £1: 1s. p.a.; for Research, from 6 to 10 gs.

RESIDENCE. Hostel for women students. A list of Registered Lodgings is kept by the Registrar.

THE YEAR 1924–25. BENEFACTIONS. For purchase of books for necessitous Science students: British Association (from the Hadfield Fund), £10. For purchase of oil and fuels: National Oil Refineries, Ltd., £50. For General Purposes: Neath Steel Sheet and Galvanizing Co., Ltd., £50. Annual Subsns.: £6408. RESIGNATIONS: J. H. Husband (German). NEW APPOINTMENTS: Prof. of Philosophy, A. E. Heath, formerly Sr. Lectr. in Education at Univ.

of Liverpool; Asst. Lectr. in Education. NEW BUILDINGS for Arts lecture rooms, Library, and Engineering: STUDENTS. Full-time, 337 (including women—127); preparing for a first degree: full-time, 299 (women—117); part-time, 4 (w.—1). Graduate students: full-time, 17 (w.—3); part-time, 6 (w.—2). Occasional students, 67 (w.—18). Taking courses not of a university standard, 21 (w.—7). DEGREES OBTAINED: B.A., 28 (w.—16); B.Sc., 23 (w.—5); M.A., 1; M.Sc., 8 (w.—2).

UNIVERSITY EXTENSION WORK. 14 Univ. Tutorial Classes and 4 Pioneer Classes with 418 students. Four courses of 3 lectures each and many single lectures were given by members of the college staff in Swansea and elsewhere. In connexion with the General Course of Reading prescribed for students in the Faculty of Arts, 10 lectures open to the public were delivered in the College. The Coal Owners' Univ. Trust Fund provided for 2 Tutorial Classes and several short courses of lectures.

UNIVERSITY COLLEGE OF THE SOUTH-WEST OF ENGLAND, EXETER

PRESIDENT—H.R.H. THE PRINCE OF WALES and DUKE OF CORNWALL.
DEPUTY PRESIDENT—Sir HENRY Y. B. LOPES, Bart., M.A., D.L.
PRINCIPAL—W. H. MOBERLY, D.S.O., M.A. Ox.
REGISTRAR AND SECRETARY—A. K. WOODBRIDGE.

PROFESSORS, LECTURERS, ETC.

Astronomy
Lockyer, W. J. S., M.A. Camb., Ph.D. Gött. Hon. Lectr.

Biology
Sager, J. L., M.A. Camb. Lectr.
Cumming, A. M., A.R.C.S.I. Asst. Lectr.

Chemistry [Prof.
Lewis, W. H., M.A. Ox., F.I.C.
Glasstone, S., D.Sc., Ph.D. Lond., A.I.C. Lectr. in Physical C.
King, Miss R., M.Sc. Lond. Lectr.
Symes, T. E., B.Sc. Lond. Demr.

Classics
Fletcher, F., M.A. Ox. Lectr.
Gordon, Mary L., M.A., B.Litt. Ox. Asst. Lectr.

Education and Psychology
Watkins, S. H., M.A. Wales, Ph.D. Leip. Prof.
Walker, Miss A. J., M.A. Birm., B.A. Lond. Lectr.
Mathias, Miss S. Y., M.A. Liv. Lectr.

Asst. Lectrs.:
Cawthorne, H. H., B.Sc. Lond., A.I.C.
Kaye, M., M.A. Lond.
8 Assts. and Pt.-time Lectrs. and Instrs. in Teachers' Training Dept.

English
Horrox, L., M.A. Camb. Prof.
Gollancz, Prof. Sir I. (v. p. 125) Hon. Leofric Lectr. in Old E.
Wright, Miss B. D., M.A. Edin., Ph.D. Lond. Lectr.
Martin Clarke, Mrs. D. E., M.A. Camb. Asst. Lectr.
de Reyes, Miss C. M., B.A. Birm. Asst. Lectr.

Geology and Geography
Lewis, W. S., M.Sc. Lond., F.G.S. Lectr.
Clayden, A. W., M.A. Camb., Visiting Director.
Williams, D. T., B.A. Wales Asst. Lectr.
Spurway, J. Asst. Demr.

History and Economics
Harte, W. J., M.A. Ox. Prof.
Patterson, E. J., M.A. Camb. Lectr.
Sykes, J., M.Com. Manc., B.A. Leeds Lectr.

Asst. Lectrs.:
Dawson, C., M.A. Ox.
Henderson, C. G., B.A. Ox.
Wilkinson, B., M.A. Manc.
Handcock, W. R., B.A. Brist.

Keltic
Jenner, H., M.A. Wales Hon. St. Petrock's Lectr.

Law
Morgan, J. G., B.A. Ox., LL.B. Lond., Barr.-at-Law Lectr.

Roberts, C H., B.A. Ox., Barr.-at-Law — Asst. Lectr.

Lectrs. in Book-keeping, etc.:
Bromhead, C. D., A.C.A.
Webster, J. E.

Mathematics
Brown, T. A., M.A., B.Sc. Edin., B.A. Camb. — Prof.
Mallison, H. V., M.A. Camb., B.Sc. Lond. — Asst. Lectr.
Unthank, H. W., M.A. Camb., B.Sc. Lond. — Asst. Lectr.

Modern Languages
Schopp, J. W., M.A. Lond. — Lectr.
Wilson, Miss M., M.A. Dub., L. ès L. Paris — Asst. Lectr.
Starkie, Miss, B.A. Ox. — Asst. Lectr.
Laumain, Mlle. — Asst.

Music
Bullock, E., Mus.D. Durh., F.R.C.O. — Lectr.

Philosophy
Levine, I., M.A., D.Litt. Glas. — [Lectr.

Physics
Newman, F. H., D.Sc. Lond., A.R.C.Sc. — Prof.
Searle, V. H. L., M.Sc. Lond. — Asst. Lectr.
Rowe, W., B.Sc. Lond. — Asst. Demr.

University Extension

Chairman of Committee for External Studies and Joint Hon. Sec. for Tutorial Classes: E. J. Patterson, M.A. Tutor in Cornwall: C. G. Henderson (v. History).

GENERAL INFORMATION

Founded 1865. Organized as University College, 1901. Incorporated 1922.

Classes in Arts, Science, Economics, Law, Music, Agr. and Horticulture prepare for London Univ. degrees. Courses are provided for Elementary and Secondary teachers, for entrance into Civil Service, and for the first year of Medical study. The Training Department is recognized as a Training College for Elem. and Secondary teachers. The Royal Albert Memorial Library (60,000 vols.) and Museum are closely associated with the College, and the important collections of books and scientific material are freely available for advanced students of the College. A Dept. of Music was opened in Oct. 1924.

ADMISSION. Minimum age, 17: though relaxation may be made under special circumstances.

TUTORIAL BOARDS in Arts and Science have been appointed to supervise the studies of students.

FEES. Sessional: Intermediate course, 16 to 20 gs.; final course in Arts, 20 gs.; Science, £25; Law, 6 to 12 gs.; Research, 8 to 10 gs.; Teachers' Training Dept. (Elem. and Sec.), £10; Registration, £1.

AFFILIATION. The College is affiliated to the Univs. of Ox. and Camb. It is recognized by the Camb. Special Board for Med., and the Conjoint Med. Board as a place of instruction in Chem., Physics and Biol., etc.

RESIDENTIAL FACILITIES. For *women*—(*a*) Hope Hall (36), sessional fee, £50-£58; (*b*) Bradninch Hall (68); (*c*) Sandford Hall (30). For *men*—(*a*) Reed Hall (70), sessional fee, £66-£70; (*b*) Grendon House (40), £60. All students not living at home must reside in one of the Halls of Residence.

SCHOLARSHIPS for graduates: one or two in Science awarded annually from Andrew Simons Scholarship Fund.

PUBLICATIONS. *Calendar*, issued (free) in July; the *Ram*, College Magazine, (terminally); the *College Field Club Proceedings*; Guild of Undergraduates' *Handbook*.

THE YEAR 1924–25

BENEFACTIONS. Miss C. M. de Reyes, £3825, for extension of Hope Hall; Col. Ranson Pickard, £100; W. J. Rook (past student), £50 for Modern Languages Dept.

NEW BUILDING. Reed (formerly Streatham) Hall of Residence.

NEW POSTS. Asst. Law Tutor (part-time). Asst. Appeal Organizer for Cornwall (temporary).

OTHER NEW DEVELOPMENTS. Preparations for an Appeal for £100,000, for a Building and Endowment Fund. In furtherance of a scheme of co-operation the School of Pharmacy was transferred to Plymouth. A scheme for advanced courses for students of Truro Training College was under consideration.

VISITS. English Folk Dance Society's Easter Vacation School; Reunion of representatives of the Extra-mural Classes; Congress of the National Union of Organists' Assocn.

RESIGNATIONS. Principal H. J. W. Hetherington, apptd. Prof. at Glasgow; W. Hamilton Whyte, apptd. Lectr. in Economics at Bristol, succeeded by J. Sykes (W.E.A. Tutorial Staff); W. J. Owen; E. J. Riggs; W. P. Baron.

STUDENTS. Full-time, preparing for first degree, 205, including 98 women; graduate, 19 (women—8). Part-time, 10 (w.—3), including graduates, 4 (w.—1). Occasional, 29 (w.—5). Taking courses not of Univ. standing, 11. DEGREES OBTAINED: B.A., 23 (w.—13); B.Sc., 12 (w.—2); LL.B., 1.

UNIVERSITY EXTENSION. 2 Tutorial Classes and 6 Preparatory (one-year) Courses; students, 152 (w.—68).

UNIVERSITY COLLEGE OF NOTTINGHAM

PRESIDENT—His Grace the DUKE OF PORTLAND, K.G.

VICE-PRESIDENTS—Sir JESSE BOOT, Bart.; Alderman E. HUNTSMAN (Chairman of Council); Lt.-Col. HENRY MELLISH, C.B.; JOHN G. SMALL, J.P.

PRINCIPAL—W. H. HEATON, M A.

REGISTRAR—J. E. SHIMELD, F.C.I.S.

PROFESSORS, LECTURERS, ETC.

Biology

Carr, J. W., M.A. Camb. Prof.

Lectrs. and Demrs.:

Holden, H. S., D.Sc. Manc. (Botany)

Bexon, Dorothy, M.Sc. Lond. (Bot.).

Chesters, Alice E., M.Sc. Liv. (Zool.).

Chemistry and Metallurgy

Kipping, F. S., Ph.D. Mun., D.Sc. Lond., F.I.C., F.R.S. Prof.

Lectrs. and Demrs.:

Prideaux, E. B. R., M.A. N.Z., D.Sc. Lond., F.I.C.

Firth, J. B., D.Sc. Manc., F.I.C.

Trotman, S. R., M.A. Camb., F.I.C.

Watson, F. S., M.Sc. Manc.

Laxton, F. C., B.Sc. Lond., A.I.C.

Driver, J. E., M.Sc. Lond., A.I.C.

Shaw, B. D., B.Sc. Lond.

Smith, E. Bertram, M.B., B.S., D.P.H.

Lane, C. R., M.A., B.M. Ox.

Classics and Philosophy

Granger, F. S., D.Lit., M.A. Lond. Prof.

Lectrs.:

Barker, E. P., M.A., D.Litt. (Classics).

Economics and Commerce

Kirkaldy, A. W., M.A., B Litt. Ox., M.Com. Birm. Prof.

Radford, A., B.Sc. Econ. Lond. Lectr. in E.

Howard, S. C. Lectr. in C.

Blythen, S., F.C.A., Prof. of Acctcy.

8 Lectrs. in Insurance and Practical Banking

Education

Wortley, H. A. S., M.A. Ox. Prof.

Lectrs.:

Newton, W. H., B.Sc. Lond.

Moncrieff, Miss A., M.A. Edin.

Becket, Miss E. M., M.A. Lond.

Ward, Miss L. M.

Adam, Anne K.

Lewis, M. M., M.A. Lond.

Lectrs. in Hygiene and in Needlework.

2 Lectrs. in Phys. Exercises.

Engineering and Technology, v. also Textiles [Prof.

Bullcid, C. H., O.B.E., M.A.Camb., A.M.I.C.E., M.I.Mech.E.

Lectrs. and Demrs.:

Richardson, W. A., D.Sc., B.Sc. (Eng.) Lond. (Civil E.).

Cotton, H., M.B.E., M.Sc. Lond., A.M.I.E.E. (Dir. Sub-dept. Elect. E.).

Dickson, J. M., B.Sc. Lond. (M.E.), A.M.I.Mech.E.
Bedford, J., B.Sc. Lond., A.M.I.Mech.E., A.M.I.A.E.
Wilde, J. H., B.Sc. (Eng.) Lond.
25 other Technical Teachers.

English
Hewitt, R. M., M.A. Ox. Prof.
Griffiths, G. S., B.A., B.Litt. Ox. Lectr.
Selby, Alice Lectr.
De Castro, Inez, M.A. Ox. Lectr.

Geology and Geography [Prof.
Swinnerton, H. H., D.Sc. Lond.
Beasley, C. G., M.A. Lond. Lectr. in Geog.
Richardson, W. A., D.Sc. Lond., A.M.I.Min.E. Lectr. in Geol.
Clift, S. G., B.Sc. Lond. Lectr. in Geol.

Hebrew [Lectr.
Sanders, H. F., B.A., B.D. Lond.

History
Owen, L. V. D., M.A. Ox. Prof.
Brameld, Nina, M.A. Lond. Lectr.
Wood, A. C., M.A., B.Litt. Ox Lectr.

Law
May, H. R. D., M.A., LL.B. Director of Dept.
Cursham, C. Lectr.

Mathematics
Piaggio, H. T. H., M.A. Camb., D.Sc. Lond. Prof.
Green, H. G., M.A. Camb. Lectr.
Wells, F. A., B.A. Camb. Lectr.
Underwood, F., B.Sc. Lond. Lectr.
7 other Lectrs.

Metallurgy, v. Chem.

Military Science [Dir.
Pickbourne, Capt. H., B.A. Lond.

Mining
McMillan, W. H., B.Sc. Glas., M.I.Min.E. Prof.
Watkins, W. G., M.I.Min.E., M.I.Mech.E. Lectr.
Whitaker, J. W., B.Sc. Lond., F.I.C., A.M.I.Min.E. Lectr.
Watson, J. M. R., B.Sc. Glas., A.M.I.Min.E. Lectr.
2 other Lectrs.

Modern Languages
Weekley, E., M.A. Camb. Prof.
Lectrs.:
Peck, Mrs. L. (English Phonetics).
Bourdache, E., B. ès L. (French).
Guigou, Mlle. M., L. ès L. (French).
Schweizer, W. R., Ph D. (German).
Moroni, Mme. (Italian).
Lavrin, Prof. J. (Russian and Slavonic).
Chamberlain, G. L., M.A. Edin. (Spanish and Portuguese).

Music [Director.
Johnson, B., B.A., Mus.B. Camb.
Kirkaldy, Mrs. Tutor.
Lectrs.:
Henniker, L., B.Mus. Ox., F.R.C.O.

Pharmacy
Bentley, A. O., Ph.C. Director of Dept.
Trease, G. E., Ph.C. Lectr.

Physics
..... Prof.
Lectrs. and Demrs.:
Shaw, P. E., B.A. Camb., D.Sc. Lond. (Dir. Sub-Dept., Metrology).
Franks, A. H., B.Sc. Lond.
Browning, Helen, M.Sc., Ph.D. Lond., F.Inst.P.
Davy, N., B.Sc. Lond., A.R.C.S.
3 other Lectrs. and Demrs. in Telegraphy, etc.

Psychology
Sprott, W. J. H., B.A. Lectr.

Technology, v. Engin., Textiles.

Textiles
Davis, W., M.A. Edin. Prof.
Lectrs.:
Barr, J. (Yarn Testing).
Trotman, S. R., M.A. Camb., F.I.C. (Dyeing and Bleaching).

Richardson, L. G. (Dyeing and Bleaching).
6 Demrs.
Zoology, v. Biol.

University Extension

Peers, Prof. R., M.A. Liv. Hd. of Dept.
De Sola Pinto, V., M.A.
Kerman, Miss F., B.A.
Wright, G. G. Neill, B A., B.Ed. Edin.
Thompson, Miss E. G., B.A. Ox.
Gray, J. L , M.A. Edin.
Hall, G., B A. Lond
2 other Lectrs. and an Organizer.

ASSOCIATED COLLEGE: MIDLAND AGRICULTURAL AND DAIRY COLLEGE, Sutton Bonington. Subjects for the Final Examn. for the London B.Sc. in Agric. are taken at this College, those for the Intermediate only being taken at Univ. College, Nottingham.

GENERAL INFORMATION

The College, opened in 1881, is in the centre of the city. The Free Public Library is at present housed in the College building. New buildings are being erected on a site 3 miles distant.

COURSES: For London degrees in Arts, Econ., Com., Div., Science, Law, Med., Agric., Engin., and Mining; Diploma of the College in Comm., Geog., Adult Education, Engin., Mining, Mine Surveying, Hosiery, Dyeing and Bleaching, Petroleum Technology (each 3 yrs.); Social Study Diploma (1 yr.); Bd. of Educn. Elem. Teachers' Certifs. and Cambridge Secondary Teachers' Diploma; L.D.S.; Assoc'ships of the Insts. of Chem. and Physics; Colliery Manager's Certif.; Nat. Diploma of Inst. of Mech. Engineers; Law Society's Examns.; Civil Service Appointments; D.P.H.; Pharmacy Diplomas; L.R.A.M. and L.R.C.M.; Post-grad. and Research courses in Arts and Pure Science. Special English course for Foreigners.

Evening Classes, including some held on Thursday aftn. and Sat. morning and aftn., for London B.Sc., B.Sc. Econ., B.Sc. Engin. and Interm. Arts; St. And. L.L.A.; Comml.; Dispensing and Pharmacy; Engin. and Technology; Mining; Textiles, including Yarn Testing, Hosiery, Dyeing.

The session for Day Classes is Sept.-July; Evening, Sept.-April.

FEES. Tuition composition, per annum: Interm. or Degree courses in Arts, Div., or Econ.—20 gs.; in other Faculties, or Diploma courses in Commerce, Engin., Mining, Mine Surveying, or for A.I.C. or A.I.P.—30 gs.; Diploma course in Geography—21 gs.; Social Study Diploma (complete course)—£10; L.D.S.—18 gs.; Colliery Manager's Certif.—12 gs.; D.P.H. (complete course)—30 gs.; Pharmacy (complete course)—£30; Law—12 gs.; English course for Foreigners—£12; Registration fee, £1 p.a.; Union fee, £1 : 1s. p.a.

Evening Classes, 15s. per session.

RESEARCH SCHOLARSHIPS in Arts and Science of from £50 to £75 are awarded annually in Dec. Special facilities for research in all subjects.

RESIDENCE. Mapperley Hall (men) and Cavendish House (women) primarily for Elem. Training students. Waverley House (men) and Hollygirt (women)—inclusive fee, 30s. and 27s. 6d. per week. Registered lodgings, 30s. to 40s. Students are, when possible, placed with private families.

UNIVERSITY EXTENSION. Extra-mural adult education is organized as a department of the Faculty of Arts. The Head of the Dept., a whole-time professor, is assisted by 4 staff tutors, 2 organizing lecturers, and many part-time tutors and lecturers.

PUBLICATIONS. *Calendar* (Oct.), 1s.; Day and Evening *Prospectuses*, 2d.; *The Gong*, 3 times a year; *Diary* (Oct.) 1s.

THE YEAR 1924–25

BENEFACTIONS. W. H. Revis bequest, £45,000. Miners' Welfare Dept., £2650. Sir Jesse Boot, erection of Entrance Lodges and Power House at new University Buildings, £12,000. Sir Jesse Boot, £7000 for Sports Ground and Pavilion. Derbyshire County Council, £1000. Notts. County Council, increase in grant of £1050. Engineering machinery, value £2000. Gifts and loans of Textile machinery, value £820.

NEW POST. Director of Sub-Department of Electrical Engineering.

RESIGNATIONS. Prof. R. W. Bond; E. L. Guilford, Lectr. in History, appointed B.B.C. Director at Nottm.; R. M. Hewitt, Lectr. in English, succeeded by G. S. Griffiths, Master at Loughborough Grammar School; E. Sewell Harris; Miss H. J. Hutchinson. DEATH: Prof. E. H. Barton.

STUDENTS. Full-time, preparing for first degree, 262, including 95 women, graduates, 23 (1 woman); total full-time, 472 (women—175). Part-time undergraduates, 8 (w.—5); graduates, 8 (w.—4). Occasional, 197 (w.—47). Evening students, 2019. Taking courses not of university standard, 16 (w.—3). Univ. Tutorial classes, 40, with 713 students. Preparatory tutorial classes, 11, with 220. One-year classes, 34, with 732. Extension lectures, 6 classes, with 132. Summer school, 70. Public lecture courses, 8. Public lectures, 31. DEGREES OBTAINED: M.Sc., 2; Ph.D., 3; B.A., 27 (w.—12); B.Sc., 26 (w.—5); B.Sc.Econ., 1; B.Sc.Engin., 7.

UNIVERSITY COLLEGE, READING

VISITOR—THE DEAN OF CHRIST CHURCH, OXFORD.

PRESIDENT OF THE COURT OF GOVERNORS—J. H. BENYON, M.A., Lord Lieutenant of Berkshire.

VICE-PRESIDENTS—Sir HALFORD J. MACKINDER, M.A.; Mrs. G. W. PALMER; ALFRED PALMER (CHAIRMAN OF COUNCIL).

PRINCIPAL—W. M. CHILDS, M.A.

TREASURER—Sir WILLIAM A. MOUNT, Bart., C.B.E., M.A.

SECRETARY AND REGISTRAR—The Rev. F. H. WRIGHT, M.A.

TUTORIAL SECRETARY—H. KNAPMAN, M.A.

PROFESSORS, LECTURERS, ETC.

Agriculture, etc., v. *infra*

Art (Department of Fine Arts)
Seaby, A. W. Prof.
7 Teachers and an Asst. in Drawing and Painting, Design, Modelling, Handicrafts.

Botany, v. also Agr.
Stiles, W., M.A., Sc.D. Camb. Prof.
Saxton, W. T., M.A. Camb., F.L.S. Lectr.
Prankerd, Theodora L., B.Sc. Lond., F.L.S. Lectr.

Chemistry, v. also Agr. [Prof.
Bassett, H., D.Sc. Lond., Ph.D. Mun., D. ès Sc. Nancy, F.I.C.
Dodgson, J. W., B.Sc. Lond. A.I.C. Lectr.
Maxted, D. R., B.Sc. Lond., A.R.C.Sc. Lectr.
A Sessional Lectr.

Classics
Ure, P. N., M.A. Camb. Prof.
Haigh, W., M.A., B.Sc. Lond. Lectr. (in German also).
Toynbee, Jocelyn, M.A. Camb. Lectr.
Whitfield, Miss V., B.A. Ox., M.A. Dub. Lectr.
Ure, Annie D., B.A. Lond. Hon. Research Fellow.

Commerce
Taylor, H., F.L.A.A. Lectr.
Coman, Grace Asst. Lectr.
2 Assts.

Dairying, v. *infra*

Domestic Subjects
Wood, Mrs. E. May Lectr. in charge of Dept.
3 Assts. and a Teacher of Dressmaking and Needlework.
1 Sessional Lectr. in Hygiene.

Economics
Buer, Mabel C., B.Sc. Lond. Lectr.

Education [Sen. Lectr.
Cooke, H. S., M.A. Ox. and Cape.
Bolam, Mary, M.A. Dub. Lectr.
Etty, J. L., M.A. Ox. Lectr.
Glason, J. A., M.B.E. Lectr.
Smith, E., B.Litt. Ox., M.A., B.Sc. Liv. Lectr.
Walker, Alice H., A.R.C.O. Lectr.

Wolters, A. W. P., M.A. Lond. Lectr.
2 Sessional Instrs. in Physical Training.

English Language & Lit. [Prof.
Dewar, R., M.A. Glas. (E. Lit.)
Morley, Edith J. (E. Lang.) Prof.
Dyson, H. V. D., B.Litt., M.A. Ox Lectr.
Lee, Margaret L., M.A. Ox. Lectr.
A Sessional Asst. in Phonetics.

French [Prof.
Desseignet, J., Ag. de l'U. Paris.
Paton, Dora A., M.A. Ox. Lectr.
Salmon, Yvonne M., L. ès L. Lectr.
A Sessional Asst.

Geography
Spicer, E. C., M.A. Ox. Lectr.
A Sessional Lectr. and Asst.

Geology
Hawkins, H. L., D.Sc. Manc., F.G.S. Prof.
Dwerryhouse, A. R., D.Sc. Leeds, M.Sc. Manc., F.G.S. Lectr.

German, v. Classics

History, Modern
Stenton, F. M., M.A. Ox. Prof.
The Principal Hon. Prof.
Sacret, J. H., M.A. Ox. Lectr.
Stenton, Mrs. F. M., B.A. Lond. Lectr.
Peyton, S. A. Asst. Lectr.

Mathematics
Neville, E. H., M.A. Camb., B.Sc. Lond. Prof.
Ashcroft, Lucy, M.A. Dub. Lectr.
Clatworthy, J. P., B.Sc. Lond. Lectr.
Knapman, H., M.A. Camb. Lectr.
Ternouth, Elsie J., M.A. Glas. Lectr.
Bowler, F. T., B.Sc. (Eng.) Lond., A.M.I.C.E. (Applied Mech.) Asst. Lectr.
3 Teachers of Machine Drawing and Applied Mechanics.

Music
Allen, Sir Hugh P., M.A. Camb., D.Mus. Ox. Visitor of Dept.
16 Teachers.

Philosophy
de Burgh, W. G., M.A. Ox. Prof.
Ward, S. B., B.A. Ox. Lectr.

Physics
Crowther, J. A., M.A., Sc.D. Camb., F.Inst. P. Prof.
Bond, W. N., D.Sc., B.Sc. (Eng.) Lond., A.R.C.Sc., F.Inst.P. Lectr.
Pearson, R. L., A.M.I.E.E. Lectr.

Psychology
Wolters, A. W. P., M.A. Lond. (also Lectr. in Educn.) Lectr.

Spanish
A Sessional Teacher.

Vet. Hygiene, v. Agric.

Zoology
Cole, F. J., D.Sc. Ox. Prof.
Eales, Nellie B., B.Sc., Ph.D. Lond. Lectr.
A Museum Asst.

Agriculture and Horticulture

Agriculture
Pennington, S., B.Sc. Edin., M.R.C.V.S. Prof.
Campbell, K. W. D., B.Sc. Durh. Lectr.
Simpson, J. S., B.Sc. Leeds Lectr. (Farm Economics).
An Instr. in Poultry.
County Organizer and 4 Instrs. for Berkshire.

Agr. Bacteriology, v. also Dairy B.
Mason, Grace H., N.D.D. Lectr.

Agr. Botany
Percival, J., Sc.D. Camb., F.L.S. Prof.
Erith, Adela G., B.Sc., Ph.D. Lond. Lectr.

Neville, H. A. D., M.A. Camb., B.Sc. Lond., F.I.C. Prof.
Murray, J. A., B.Sc. Edin. Lectr.
Nicholson, H. H., M.A. Camb. Lectr.
Thompson, J., Ph.D. Heid., F.I.C. Analyst.
Harris, E. T., M.A. Camb., A.I.C. Demr., etc.
Davies, W. L., Ph.D. Camb., M.Sc. Wales, A.I.C. Advisory Officer.

Building Construct., etc.
Hitchins, W. W., L.R.I B.A., P.A.S.I. Lectr.
An Asst.

Dairy Bacteriology
Williams, R. Stenhouse, M.B., C.M., B.Sc. Edin., D.P.H. Camb. Research Prof.
Mattick, A T. R., B.Sc. Lond. Lectr. (Dairy Hygiene).
2 Assts..

Dairy Chemistry
Golding, J., F.I.C. Research Chemist.
Mattick, Mrs. E., M.Sc., Ph.D. Bris. Asst. for Research.
An Asst.

Dairy Farming
Mackintosh, J., O.B.E., N D.A., N.D.D. Lectr.
2 Assts.

Economic Entomologist
Mosley, F. O., F.L.S.

Economic Mycologist
Buddin, W., M.A. Camb.

Horticulture
Cobb, A. J. Lectr. and Instr.
2 Assts.

Machinery [Lectr.
Passmore, J. B., B.Sc. Lond.

Plant Pathologist
Mosley, F. O., F.L.S.

Veterinary Hygiene
Male, G. P., M.R.C.V.S. Lectr.

University Extension
Tutors, 3.
Thomas, A. S., B.Sc. Lond. Demr.
Agr. Chemistry, v. also Dairy C.

British Dairy Institute (occupying a building on the College site and controlled by a committee representing the British Dairy Farmers' Assocn. and the College). Manager and Chief Instructor—A. Todd. 2 Asst. Instrs.

The National Institute for Research in Dairying, Shinfield, near Reading, established by the Ministry of Agric. and Fisheries in 1912, forms part of the College. It is governed by a Board consisting of representatives of the Ministries of Agric. and Health, R.A.S. of England, British Dairy Farmers' Assocn., Nat. Farmers' Union, etc. It has three Depts.—Dairy Bacteriology, Dairy Chemistry, and Dairy Husbandry.

GENERAL INFORMATION

"The University Extension College, in conjunction with the Schools of Science and Art, Reading," was opened in 1892 and incorporated under the Companies Acts in 1896, and became the University College, Reading, in 1902. It has an endowment of £285,000.

Library, 34,500 vols., including Overstone collection (7500 vols.) of books on Polit. Econ. (pubd. before 1850), English and French thought during eighteenth century, and topography (especially Northamptonshire). 136 periodicals are received. Museums: Zool. and Hist. and Archæol. Laboratories: Bot., Chem., Geol., Physics, Psych., Zool. Fine Art Studios. School of Music. Gymnasium. Two farms (359 and 141 acres) and Hortic. Station.

Faculties: Letters, Science, Agric. and Horticulture (associated with which are the National Inst. for Research in Dairying and British Dairy Inst.).

DEPARTMENTS: Fine Arts, Music, Domestic subjects.

ADMISSION. Candidates for Degree courses must matriculate before admission. Entrance examn. for Diploma courses in Agric., Dairying, Hortic., Domestic subjects.

DEGREE COURSES are provided for the London B.A., M.A., Ph.D., B.Sc. (Pass and Hons.), B.Sc. in Agric. (3 yrs.) and Hortic. (4 yrs.), and the 2nd examn. for Med. degrees, Pt. I., of London.

COLLEGE DIPLOMA (Associateship) COURSES: 2 yrs.—Agric., Commerce, Dairying, Domestic subjects, Educl. Handicrafts, Hortic., Letters; 3 yrs.—Fine Art, Music, Distinction in Agric., Dairying, Domestic subjects, or Hortic. College Diploma Course (post-graduate) in Education (1 yr.).

OTHER COURSES for College Certifs. in Agric. (6 mos.), Commerce, Domestic subjects, Geography, Horticulture, Secretarial subjects (1 yr.), Fine Art, Metal Work, Wood Carving, Embroidery, Leather Work, Weaving Writing and Illumination (2 yrs.), Dairy Factory Management, Poultry-keeping (10 weeks); for the Pre-Medical examn. of the R.C.P. and R.C.S. (1 yr.), British Dairy Farmers' Assocn. examns. (6 mos.), L.R.A.M., A.R.C.M., etc.; Special course in Illustration.

FEES. For Tuition: Degree or Diploma course—Arts, £25 p.a., Sc., £30 p.a. (Dairying, £35 for 1st, £41 for 2nd year; Fine Arts, £18); Certif. course—£18 to £30.

SCHOLARSHIPS, ETC., FOR GRADUATES. Two Research Fellowships, and several Scholarships in connexion with the HALLS OF RESIDENCE, which provide accommodation for 400 students, men (£80 per session of 30 weeks) and women (£54 to £64). Sanatorium attached.

UNIVERSITY EXTENSION, ETC. Agriculturists are helped by correspondence, visits, local lectures, examination of diseased plants, etc. Evening classes are held in Machine and Building Constn., Builders' Quantities, and most of the subjects in which Day courses are provided. Tutorial classes are held in connexion with the W.E.A.

PUBLICATIONS. *Calendar* (Sept.), 6d.; *Tamesis* (students'), terminally.

THE YEAR 1924-25

In January 1925 the College forwarded a further petition to the King in Council for the grant of a Royal Charter conferring upon it the status and privileges of an independent University. The reply was favourable, and steps are now being taken to effect the transition of the College from its present status to that of a University.

STUDENTS. Full-time, preparing for a first degree, 311 (men—91, women—220); graduate and other advanced students, 14 (women—2); total full-time students, 580 (w.—392). Occasional students, 20 (w.—11). Taking courses not of a univ. standard, 992 (w.—491). Tutorial class students, 57 (w.—37). DEGREES OBTAINED: B.A., 50 (w.—44); B.Sc., 31 (w.—11); B.Sc. (Agr.), 5 (w.—1); B.Sc. (Hort.), 2 (w.); Ph.D., 1 (w.).

UNIVERSITY COLLEGE, SOUTHAMPTON

VISITOR—H.R.H. THE DUKE OF CONNAUGHT AND STRATHEARN, K.G., K.P., K.T.

PRESIDENT—CLAUDE G. MONTEFIORE, M.A., D.D.

VICE-PRESIDENT—ALEX HILL, M.A., M.D., F.R.C.S.

TREASURER—Sir RUSSELL BENCRAFT, M.R.C.S., L.R.C.P.

PRINCIPAL—KENNETH H. VICKERS, M.A.

REGISTRAR—GEORGE GRANT, B.A.

PROFESSORS, LECTURERS, ETC.

Botany

Mangham, S., M.A. Camb. Prof.
Loader, Miss F. M., B.Sc. Lond. Lectr.

Chemistry

Boyd, D. R., D.Sc. Glas., Ph.D. Heid., F.I.C. Prof.
Smith, A. E. Clarence, B A. Camb., A.I.C. Lectr. in Physical C.
Smith, F. J., B.Sc. Lond. Asst. Lectr.
Hardy, D. V. N., B.Sc. Lond. Demr.

Classics

Forsey, G. F., M.A. Lond. Reader.
Sinclair, T. A., B.A. Camb. Asst. Lectr.

Commerce and Economics

Scholfield, A., M.Com. Manc. Reader.
..... Lectr.

Education and Philosophy

Cock, A. A., B.A. Lond. Prof.
Dudley, G., B.A., LL.B. R.U.I. (Lectr. in Logic) Sr. Lectr.
Green, Mrs. A., M.A. Manc. Lectr.
Steel, Miss M. J., M.A. Edin. Lectr.
Sumner, W. L., B.Sc. Lond. Lectr.
Ricks, Miss E. M. Asst. Lectr.
Watson, A. Asst. Lectr.

Engineering, Civ. and Mech.

Eustice, J., B.Sc. Lond., A.R.S.M., A.M.I.C.E. Prof.
Mann, E. E., M.Sc. Leeds, A.M.I.C.E. Lectr.
Glover-James, H., Dip.Eng. Edin., A.M.I.Mech.E. Lectr.
Ford, G. P. Asst. Lectr.
Moyle, R. C. Demr.

Engin., Elec., v. Physics

English

Evans, B. I., M.A. Lond. Prof.
Aubrey, Miss E. R., M.A. Lond. Lectr.
Crawford, S. J., M.A. Belf., B.Litt. Ox. Lectr.

Geography

Rishbeth, O. H. T., M.A. Ox. Reader.
Miller, Miss F. C., B.A. Leeds Lectr.

Geology and Zoology

Sherriffs, W. R., M.A., D.Sc. Aberd. Reader.

History

Lyttel, E. S., M.A. Ox. Prof.

Horrocks, J. W., D.Lit. Lond. Lectr.
Harlow, V. T., M.A., B.Litt. Ox. Asst. Lectr.

Law [Reader.
Cook, W. G. H., LL.D., M.Sc.

Asst. Lectrs. (part-time):
Cannon, G. H. F., M.A. Ox.
Durant, W. Maitland, B.A., LL.B. Camb.
Groves, L. G., LL.B. Lond.

Mathematics, Pure and Applied
Watkin, E. L., M.A. Camb. Prof.
Casson, R., M.A. Camb. Lectr.
Trout, Miss A. M., B.A. Lond. Lectr.
Gabriel, R. M., B.A. Ox. Lectr.

Music
Leake, G., Mus.Bac. Durh., F.R.C.O. Prof.
Osborne, G. H., F.R.C.O. Lectr.

Faulkner, Mrs., A.R.C.M. Lectr.

Philosophy, v. Educn.

Physics & Electrical Engineering
Stansfield, H., D.Sc. Lond., A.M.I.E.E. Prof.
Spary, P. G., B.Sc. Lond., M. Eng. Sheff., M.I.E E., A.M.I.C.E. Lectr. in Electro-technics.
Tomlinson, H. J., B.Sc. Lond., A.I.E.E. Lectr.
Chester, C. E., B.Eng. Sheff., A.M.I.E.E. Asst. Lectr.
Cox, H. B., O.B.E. Demr.

Romance Languages and German
Patchett, E. W., B.A. Camb. Prof.
Hamilton, Miss G. H. Lectr.
Roulleau, M. Asst. Lectr.

Spanish [Lectr.
Lindsay, B., Ph.L., Valladolid

Zoology, v. Geol.

GENERAL INFORMATION

Founded 1850; opened as the Hartley Institution, 1862. Incorporated as the Hartley University College in accordance with a scheme of the Board of Education, 1902.

The Library, 20,000 vols., includes the Cope collection of Hampshire books, pamphlets, and broadsheets.

Classes in Arts and Science prepare for the degrees of the Univ. of London; a Commercial course for the B.Sc. (Econ.) and B. and M.Com. The Coll. has a Dept. of Engineering—Civ., Mech., and Elec. It provides courses for Elem. and Secondary Teachers, for entrance into the Civil Service, the first year of Med. Study, Pharmacy, Surveying, etc. It is recognized as a Training Coll. for Elem. Teachers. It is affiliated to the Univ. of Camb. Through its Evening Classes (attended by upwards of 400 students) it performs the function of a Technical Institute. A Dept. of Law, instituted in 1923, is recognized as a Law School under the Solrs.' Act. The *Associateship* (Assoc. U.C.S.) implies, unless honorary, attendance at day or evening classes during at least one full session. *Diplomas* are awarded in Commerce, Engineering, Engin. Research, Geography, Advanced Geog., Law, and Music. Special Diploma in English for *foreign students*.

ADMISSION. The minimum age for both Day and Evening students is 16. Each full-time student is placed under the supervision of a member of the Staff, who acts as his Tutor.

FEES. The sessional fee is £25 for Courses in Arts, £30 for Courses in Science or in Engineering (students whose parents are ratepayers within County Borough, Southampton—£18 : 15s. and £22 : 10s.).

SCHOLARSHIPS FOR GRADUATES. One of £50. One of instruction fees in Educn. Loan fund for senior students.

RESIDENTIAL FACILITIES. South Stoneham Hall of Residence for men; Warden—Prof. A. A. Cock, B.A. South Hill, Hall of Residence for Women; Warden—Mrs. Ashdown. Highfield Hall, a Hall of Residence for Women; Warden—Miss E. R. Aubrey, M.A.

PUBLICATIONS. *Calendar*, pubd. in Sept.; *Hartley Mag.*, terminal, 6d.

THE YEAR 1924–25

NEW BUILDINGS. Temporary Assembly Hall, with a seating capacity of about 600; extension at the Hall of Residence for Men Students.

NEW POSTS. Two Asst. Lectrs. in Law for the Southampton and Portsmouth centres.

CONFERENCE on correlation of University and School instruction, to which the members of the teaching profession throughout the area served by the College were invited. The attendance numbered 300.

RESIGNATIONS. Prof. H. M. Margolhouth, appointed Secretary of the Faculties, Univ. of Oxford, succeeded by B. I. Evans, formerly Lectr. at the Univ. of Manchester; Miss E. I. Conway; G. H. Hamilton, appointed Lectr. at Bournemouth Municipal College.

OTHER OCCURRENCES. The Department of Fine Art was discontinued and arrangements have been made for the necessary instruction to be given to Training College Students by the Southampton School of Art. An appeal for £500,000 was launched.

EXTENSION WORK AND PUBLIC LECTURES. 3 courses of lectures were delivered by members of the College Staff, under the auspices of the Southampton Univ. Extension Society. 6 public lectures were given at the College by eminent men.

THE SCOTTISH UNIVERSITIES

ST. ANDREWS ABERDEEN
GLASGOW EDINBURGH

REPRESENTATIVES IN PARLIAMENT

Sir GEORGE A. BERRY, M.B., LL.D.; DUGALD M'COIG COWAN, M.A.; Rt. Hon. Sir HENRY CRAIK, Bart., K.C.B., M.A., LL.D.

IN CONSTITUTION these 4 Universities have under the operation of the Univs. (Scotland) Acts, 1858 and 1889, been to a great extent assimilated. By the former Act 2 new bodies, called the Univ. Court and General Council, were instituted; by the latter a Committee of H.M.'s Privy Council was constituted, and an Executive Commission was created with extensive powers, which it continued to exercise till the end of 1897. These Commissioners issued ordinances, *inter alia*, for degrees, for the instruction and graduation of women, for special study and research, and for the constitution of a Students' Representative Council with power to petition the Senatus Academicus and the Univ. Court.

The *Chancellor* is elected (for life) by the General Council, of which he is President. He is empowered to nominate a *Vice-Chancellor*, who may confer degrees in his absence, but cannot discharge any other of his duties. The Vice-Chancellorship is at the present time held in each Univ. on the Chancellor's nomination by the *Principal*, who is appointed by the Crown (except in Edinburgh) and is President of the Senatus Academicus, and, in the absence of the Rector, of the Univ. Court. The *Rector* is elected every 3 years by the matriculated students. He is the official President of the Univ. Court.

The *University Court* consists of the Rector, Principal, the Lord Provost of the City (in St. And. the Provost of St. Andrews and Lord Provost of Dundee), and Assessors appointed by the Rector, Chancellor, Senatus, General Council, and (except in St. Andrews) Town Council. In St. Andrews the Principals of St. Mary's Coll. and Univ. Coll., Dundee, are also included in it. There is provision for the representation of other affiliated Colleges. The Court, a body corporate with full power to administer the property belonging to the Univ., is a Court of Appeal from the Senatus and has power, since the expiration of the powers of the Commrs. under the Act of 1889, to found new chairs with the approval of the Univs. Committee and make other ordinances with the approval of H.M. in Council. It has, *inter alia*, powers to appoint professors whose chairs are in the patronage of the Univ., examiners and lecturers; to define the nature and limits of a professor's duties under his commission; and to recognize for graduation purposes the teaching of any College or individual teacher, under the regns. providing for such recognition.

The *Senatus Academicus*, consisting of the Principal, the whole of the Profs., and certain Readers and Lecturers, is entrusted with the regulation and superintendence of the teaching and discipline of the Univ. The administration of the Libraries and Museums is entrusted to Joint Committees elected two-thirds by the Senatus and one-third by the Court.

The *General Council* consists of the Chancellor, the members of the Univ. Court, the Profs., such Lecturers and Readers as have held office for a year, and the Graduates of the Univ. It meets twice a year and may hold special meetings at the instance of the Chancellor. Proposed improvements in the arrangements of the Univ. must be submitted to the Council for their consideration.

The General Councils of the four Universities elect three *Members of Parliament*.

FACULTIES. In all the Univs.—Arts, Science, Divinity, Medicine. In all except St. Andrews—Law. In Edin. only—Music. In Glas. and Aberd —Engineering.

TERMS. The academic year is divided into three terms—Oct. to Christmas, Jan. to latter part of March, April to end of June or early July.

ADMISSION (v. also pp. 5, 641). The Preliminary Examn. Regulations prescribe for a candidate for a first degree in Arts or Science or Medicine that before entering on the curriculum he pass on specified standards an examn. in (1) English; (2) Latin or Greek; (3) Maths.; (4) another (approved) language or Dynamics; provided that Science and Medical Students may substitute French or German for Latin or Greek.

Exemption (*pro tanto*) is granted in consideration of having passed approved equivalent examns. Candidates from abroad, whose native language is other than English, must pass a Special examn. in English (held in March and Sept.; in set works and an oral examn.). Candidates from the British Empire overseas, whose native language is English and who have passed examns. which would admit them to Univs. or Tech. Colleges affiliated to Univs. in their own country, will be exempted, but candidates for degrees in Engineering must show they have a sufficient knowledge of Mathematics (*e.g.*, if from India, such as is implied by a satisfactory pass in the Interm. examn. of an Indian Univ.). Indian students must have passed Interm. examn. in Arts or Science. Similarly the Baccalauréat-ès-Lettres or ès-Sciences will exempt from the Prelim. examn. for Arts or Science courses respectively or for Medical courses; Certificates of Maturity or Grades similar to the French Baccalauréat which would entitle the holder to enter upon a regular course of study in the Univs. of his own country will similarly exempt other students from the continent of Europe; and students of the U.S.A. holding certificates which would admit to a regular graduating course in any of the Univs. or Colleges approved by the Assocn. of American Univs. (v. Appendix XXV.) will be exempt.

N.B. A Certificate submitted as proof of title to admission to Univs. abroad should be accompanied by an authenticated declaration by a Government Official or Official of an Agency-General, Embassy

Legation, or Consulate of the country to which the applicant belongs, testifying that it has the alleged value. If in a foreign language, certificates should be accompanied by certified English translations.

Argentine Certificates giving admission to the Univ. of Buenos Ayres, the B.A. degree of St. John's, Shanghai, the first-class certificates of the Anglo-Chinese College, Amoy; and, if including Arabic, English, Maths., and—for Arts courses—French, the Egyptian Secondary Education Certificate, have been recognized as exempting from the Prelim. examn.

The holder of a Degree obtained otherwise than *honoris causa tantum* in any British or foreign Univ. is exempt from all Prelim. Examn.

Applications for exemption on the ground of having passed any of the above-mentioned examns., *or on other grounds*, should be addressed to the Secretary of the Entrance Board, 81 North Street, St. Andrews.

DEGREES and courses leading thereto (v. also p. 13). The *M.A.* (ordinary) course (there is no B A.) extends over 3 yrs. and, except at St. And. (v. p. 296), includes (for ordinary degree) subjects from 3 of the 4 departments of the Faculty, namely Lang. and Lit., Ment. Philos., Science, Hist. and Law. A candidate for the degree must not only have regularly attended, but also have duly performed the work of the classes in the qualifying courses. The first 2 yrs may be taken in any of the Scottish Univs. The Senatus may accept attendance given and examns. passed at other Univs. specially recognized for the purpose, if qualifying courses for at least 2 yrs. (St. And., 1 yr.) are attended and the Degree examns. are passed in the Univ. granting the degree. For the purpose of reckoning duration of study an academic yr. is constituted by attendance on at least 1 course (Glas. and St. And., 2 courses) of study in each of the 3 terms. The degree is never conferred *honoris causa*. For M.A. (Hons.) 4 yrs.' study is generally required.

The *B.Phil.* and *B.Litt.* are conferred only by St. And. A candidate for either of these degrees must take the M.A. either before or along with it. The standard of the Final examn. is that of the M.A. Honours.

The *B.Com.* conferred by St. And., Aberd., and Edin. may be taken, under conditions as to place of study similar to those for the M.A., after courses covering at least 9 terms.

The *Ed.B.* involves a 2 yrs.' course subsequent to the first 3 yrs. of study for a previous degree, in addition to Professional training or experience as a teacher.

The practical part of the training of students preparing for the *Teaching Profession* is provided by the several Provincial Committees, which likewise recognize attendance at Univ. classes as qualifying for their certificates.

The B.Sc. in Pure Science. The course for the ordinary degree covers 3 yrs. (Edinburgh 4 yrs.) and includes from 6 to 9 courses, of which 4 or 5 (St. And., 2) must be taken in the Univ. which is to grant the degree. The other courses may be taken in other Univs. or Institns. approved, or under teachers recognized for this purpose, by the Univ. Court. The degree with Honours requires 4 yrs., and is of a standard not less high than that required for M.A. (Hons.).

The B.Sc. in Applied Science can be obtained as follows: Engineering (St. And., ordinary, 3 yrs.; Edin., ordinary and honours, both 3 yrs.; Glas., 4 yrs., the branches in which honours are obtainable being Civ., Mech., Elec., Mining, and Chemical E., and Naval Archit.; Aberd., ordinance in preparation). Mining Engineering (Edin., ordinary, 4 yrs.). Applied Chemistry (Glas., honours, 4 yrs.). Technical Chemistry (Edin., ordinary, 4 yrs) Architecture (Glas., honours, 4 yrs.). Agric. (Aberd. and Edin., ordinary, 3 yrs.; honours, 4 yrs., Glas., ordinary, 3 yrs.). Forestry (Aberd., ordinary, 3 yrs.; Edin., ordinary, 3 yrs.; honours, 4 yrs.). Pharmacy (Glas, ordinary, 3 yrs.). Public Health (Edin. and Glas., 18 months after graduation in Med.). Vet. Sc. (Edin., 4 yrs.).

Higher Degrees in Arts and Science. The D.Sc. in Pure Science, in Engin. (Edin., Glas, St. And.), Pub. Health (Edin., Glas.), Mining (Edin.), Agric. (Edin), and Vet. Sc. (Edin.), and the D.Litt. are open to graduates of 5 yrs.' standing. A thesis is required and, except in the case of a graduate of a Scot. Univ. with an Honours degree (St. And., an Honours graduate of the Univ. granting the degree), research under supervision extending over 2 yrs. in the Univ. which is to grant the degree. These degrees are never granted *honoris causa*.

Divinity. The B.D. examn. of any of the Univs. is open to a graduate in Arts of a Scottish or other approved Univ. or the holder of any Univ. Degree or Diploma recognized as an equivalent by the Univ. Court who has completed his Theol. course (3 yrs.), of which not less than 2 yrs. has been in the Univ. in which he proposes to take the B.D. All the examns. must be passed at the Univ. granting the Degree. The D.D. is honorary. The Gifford Lectures in Natural Theology are open to the general public.

Law. The B.L. course (3 yrs.) is open to students who have passed the Arts Prelim. or its equivalent, with Latin (Higher Standard) as one of the subjects. The LL.B. (3 yrs.) is open to graduates in Arts of a Univ. of the U.K. or any other specially recognized.

Of the B.L. course 1 yr. and of the LL.B. 2 yrs. may be spent in any specially recognized Univ. or School of Law.

St. And. does not at present provide full courses for or grant these degrees. The LL.D. is honorary.

Medicine. Three of the requisite 5 yrs. of medical study for the M.B. and Ch.B. may be spent in any Univ. of the U.K. or other Institn. specially recognized for the purpose or under a teacher recognized by the Univ. A candidate who has at any such Univ. completed a course and passed an examn. in Chem., Physics, or Biology qualifying for a degree in Science, Arts, or Med. may be exempted by the Senatus from the corresponding part of the M.B., Ch.B. examns. Aberd., Edin., and St. And. extend this concession to courses and examns. in Anatomy and Physiology qualifying for a degree in Science (St. And.—or Arts or Med.; Edin.—or Med.).

A graduate in Medicine of at least 24 yrs. of age who has, subsequent to graduation, been engaged for at least 1 yr. in attending the Med. (or Surg.) wards of a hospl., or in scientific work bearing directly on his profession, or in the Naval, Milit., Colonial (Aberd., Edin., Glas.), or,

for the M.D. (St. And.—M.D. or Ch.M.), Pub. Health Med. Services, or 2 yrs. in practice not restricted to Surg. (or Med.), and passed the prescribed examn. and submitted a satisfactory thesis, may be admitted M.D. or Ch.M. as the case may be.

Ph.D. See p. 17.

FEES. The Matriculation, 2 gs. *per annum*; inclusive Tuition fees *per annum* in Arts are 15 gs., in Science 25 to 35 gs.; examn. fees for M.A., 7½ gs.; B.Sc., 9 gs.; Divinity, 7½ gs.; Law, 9 gs.; M.B., Ch.B., 33 gs.; graduation, £1. Further information is given in the several Univ. sections.

RESEARCH OR SPECIAL STUDY may be prosecuted in a Univ. under supervision by persons suitably qualified, whether graduates or not, admitted by the Senatus. Access to and the use of the Univ. laboratories, etc., may be obtained on such conditions as to payment and otherwise as the Univ. Court may determine. The title of Research Fellow may be conferred with or without a stipend on specially distinguished research students.

APPOINTMENTS COMMITTEES have been constituted in all the Univs. to help students to find employment.

SCHOLARSHIPS. Provision for affording Univ. instruction and maintenance to students of small means is probably nowhere more ample than in Scotland. Besides the numerous bursaries, etc., awarded by the Univs., and the Carnegie Trust benefactions (v. *infra*), the Provincial Committees for the Training of Teachers award bursaries, according to the necessities of students, of from £5 to £25, and travelling, hostel, and other special allowances, and Secondary Education Authorities may assist any duly qualified person resident in their areas to enter or attend a Univ., Training Coll., etc.

Scholarships, etc., for Graduates. The following are open to graduates of all the Scot. Univs.: (1) Carnegie Scholarships (£150) and Fellowships (£250) and grants in aid of Research. Application forms supplied by the Carnegie Trust, 22 Hanover St., Edinburgh. (2) Ferguson—six of £80 each for 2 yrs. for graduates in Arts. Ferguson Bequest Fund, 94 Bath St., Glasgow. (3) M'Cunn—two of £200 and two of £400 for 1 yr., for medical research. M'Cunn's Trustees, 160 West George St., Glasgow. (4) Shaw Philosophical—£200 for 5 yrs. for graduates in Arts (in the Patronage of Edinburgh Univ.). (5) Blackie—in Greek, £170 for 1 yr. for graduates in Arts who are students of Theology. (6) Hume Brown—in Scottish History, £65 for 1 yr. for graduates in Arts. (7) Maclean (Semitic Languages), £175 for 1 yr. for graduates in Arts preparing to enter the Ministry of the Church of Scotland; managed by the Univ. of Glasgow. (8) Crombie (Biblical Criticism), £50 for 1 or 2 yrs. for graduates in Arts with First Class Hons. in Classics; managed by St. Andrews. (9) Shaw Macfie Lang (Science), Income of £3000 for Hons. Graduates in Arts or Science; managed by Edinburgh.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. Offices at Merchants' Hall, Hanover Street, Edinburgh. Secretary, Jas. Robb, LL.B.; Treasurer, Jas. Davidson.

The annual income of the Trust is about £125,000, one half of

which is devoted to (A) the improvement and expansion of the Universities of Scotland in the faculties of Science, Medicine, History, and Mod. Langs., and extending opportunities for scientific study and research, and Technical or Commercial Univ. education; the other half to (B) assisting Scottish students in the payment of Univ. class fees. Any surplus not required for (B) in any year is to be devoted to (A). Institutions in Scotland recognized by the Executive Committee of the Trustees as preparing students for graduation or as providing technical or commercial education of University level are entitled to participate as regards (A) and their students as regards (B). Any surplus not required for (A) or (B) may be devoted to Univ. Extension work.

The Regulations for Assistance in the payment of Class fees provide, *inter alia*, that applicants should hold the Leaving Certif. of the Scottish Educn. Dept. bearing evidence of such preliminary education as is required by the Univs. for their respective graduating curricula. Where for satisfactory reasons such Leaving Certif. has not been obtained, the Exec. Committee may accept instead what they deem equivalent evidence of attainments, provided that no applicant will be eligible who has to pass any further prelim. examn. before completing his graduating curriculum. The annual report of the Exec. Committee contains reports of experts on the work of beneficiaries and lists of papers published by them.

Research Fellowships, Scholarships, and Grants awarded for 1924–25: St. Andrews—24, value £3935; Glasgow—37, value £3846; Aberdeen —10, value £1620; Edinburgh—29, value £3271. Total—100, £12,672.

Class Fees paid for 1923–24: St. A.—£4317 for 336 beneficiaries; G.—£25,572 for 2111; A.—£9072 for 765; E.—£15,089 for 1223.

Under a Fifth Quinquennial Scheme of Distribution for the period from Oct. 1, 1925, to Sept. 30, 1930, there has been allocated a sum of £198,500, distributed thus: St. A. centre—£38,000; G.—£60,000; A.—£40,000; E.—£60,500.

THE SCOTTISH STUDENTS' INTER-UNIVERSITIES CONFERENCE. At this Conference, which is held annually, and meets in rotation at St. Andrews, Aberdeen, Glasgow, and Edinburgh, the students of the 4 Univs. discuss matters of general interest to them all. The Students' Representative Council of each Univ. sends 4 delegates, one of whom must be a woman. The convener of the International Academic Committee (v. p. 7) also attends and reports on the work of the National Union of Students for Scotland, and each Univ.'s Union and Students' magazine are represented. The President and Secretary of the Conference are the President and Secretary of the Students' Representative Council of the Univ. at which the Conference is held. A record of the work of each Conference is printed and distributed to each of the Univs. concerned. By providing a common meeting-place for the students of the Scottish Univs., this Conference is largely responsible for the feeling of solidarity which is a marked feature of student life in Scotland. The 32nd Conference will be held at Aberdeen in 1926. Corresponding Secretary for the N.U.S.—Lilian M. Rogers, S.R.C. Offices, The University, Edinburgh.

UNIVERSITY OF ABERDEEN

CHANCELLOR—His Grace THE DUKE OF RICHMOND AND GORDON, K.G., G.C.V.O., C.B., LL.D.

VICE-CHANCELLOR AND PRINCIPAL—Very Rev. Sir GEORGE ADAM SMITH, M.A., D D., LL.D., Litt.D., F.B.A.

RECTOR—Rt. Hon. VISCOUNT CECIL OF CHELWOOD, P.C., K.C. (elected 1924).

SECRETARY OF THE UNIVERSITY—H. J. BUTCHART, D.S.O., B.L.

CLERK AND REGISTRAR OF GENERAL COUNCIL AND LIBRARIAN—P. J. ANDERSON, M.A., LL.B.

UNIVERSITY COURT

PRESIDENT—THE RECTOR.
THE PRINCIPAL, *ex officio*.
THE LORD PROVOST OF ABERDEEN, *ex officio*.
J. E. CROMBIE, M.A., LL.D.
THE RECTOR'S ASSESSOR.
H. J. GRAY, M.A., B.L.
GEORGE DUNCAN, M.A.
GEORGE SMITH, M.A., LL.D.
J. SCOTT RIDDELL, M.V.O., C.B.E., M.A., M.B., C.M., LL.D.
Prof. MATTHEW HAY, M.D., LL.D.
Prof. ASHLEY W. MACKINTOSH, M.A., M.D.
Prof. H. M. MACDONALD, O.B.E., M.A., F.R.S.
Prof. JAS. GILROY, M.A., D.D.

PROFESSORS, LECTURERS, ETC.

Accounting & Business Methods
Reid, J., M.A., C.A. Lectr.
Grant, John, M.A., C.A. Asst. (Agric. Book-keeping).

Agriculture, v. also Eng., Nat. Hist., Vet. Hyg.
Hendrick, J., B.Sc. Lond. Strathcona-Fordyce Prof.
Profeit, W. J., M.A., B.Sc. (Agr.) Lectr.
Donald, G., B.Sc. (Agr.) Asst.
Findlay, W. M. (Seed Testing) Asst.

Agric. Botany
Clark, R. M., B.Sc., F.L.S. Lectr.
Coutts, E. H. M., M.A., B.Sc. Asst.

Agric. Chemistry
Hill, Alfred, B.Sc., B.Sc. Agr. A.I.C. Asst.
Hendry, F. W. F., B.Sc., A.I.C. Asst.

Anatomy, v. also Embryol.
Low, Alexr , M A., M.D. Reg. Prof.
Lockhart, R. D., Ch.M. Lectr.
Mulligan, J. H., M.B. Asst.

Art [Lectr.
Kelly, W., LL.D. (Architecture)
Rollo, R. Leslie, A.R.I.B.A. (Principles and Hist. of Archit.) Lectr.
Townend, H., M.A. (Painting) Lectr.
de Selincourt, O., M.A. Ox. Lectr. (Theory of Art).
Swainson, Willan, F.R.C.O., A.R.C.M. Lectr. (Music).
Prof. Harrower Lectr. (Sculpture).

Astronomy and Meteorology
Roberts, Owen F. T., M.A. Camb. Lectr.

Banking
Cowie, R. H. Lectr.

Bio-Chemistry
Beard, E., B.Sc., A.I.C. Lectr.

Biology, v. Nat. Hist.

Botany
Craib, W. G., M.A., F.L.S. Reg. Prof.
Skene, MacG., D.Sc. Lectr. in Veg. Physiol.
Smith, Noel J G., B.Sc. Asst.
Crookall, Robert, B.Sc., Ph.D. Asst.

Celtic and Comp. Philology
MacDonald, John, M.A. Lectr.

Chemistry, v. also Agric.
Findlay, Alexr., M.A., D.Sc., Ph.D. Leip. Prof.
Gray, F. W., M.A., D.Sc. Lectr.
Thomas, Wm., M.Sc. Wales, B.A. Camb., Ph.D., A.I.C. Lectr.
Reade, T. H., M.Sc. Birm., B.A. Camb., A.I.C. Lectr.
Humphries, J. E., M.Sc. Wales, B.A. Lond. and Camb., Ph.D. Lond. Asst.
Campbell, Alan N., M.Sc., Ph.D. Lond. Asst.

Classics
Harrower, J., LL.D. Glas., M.A. (Greek) Reg. Prof.
Duff, A. M., B.A. Ox. Asst.
Mordaunt, Frances G., M.A. (Lectr. in Gk. Hist., Lit. and Art) Asst.
Souter, A., M.A., D.Litt. (Humanity) Reg. Prof.
McCallum, R. F. G., M.A. Asst. (Latin).
Cameron, Archibald, M.A. Glas., B.A. Ox. Asst. (Latin).
Harden, D. B., B.A. Camb. Asst. (Latin).

Divinity, v. Theol.

Economics, v. Pol. Econ.

Education [Lectr.
Walker, Norman T., M.A. Edin.
Kennedy, Donald, M.A., B.Sc. Glas. Asst.

Embryology
..... Reader.

Engineering
Blackadder, W., D.Sc. Edin., A.M.I.C.E. Jackson Prof.
Stewart, F. R., B.Sc. (Eng.) Glas., A.M.I.C.E. Asst. (*Agric. E.*).
Cruickshank, A., M.C.I. ,, ,,

English, v. also Public Speaking
Jack, A. A., M.A. Glas., LL.M. Camb. Reg. Prof. of E. Lit.
Taylor, W. D., M.A. Glas., B.A. Ox., M.A. Lectr. (E. Lit.).
Abbott, C. C., M.A. Lond., B.A. Camb. Lectr. (E. Lang.).
Cruickshank, Dorothy M., M.A. (Part-time Asst.).

Fisheries, Scientific Study of
Bowman, A., D.Sc. Lectr.

Forestry
Fraser, G. K., M.A., B.Sc., B.Sc. For. Lectr. in Soils.
Laing, E. V., M.A., B.Sc., B.Sc. For. Interim Lectr.

Forest Botany and Forest Zoology
Watt, A. S., B.A. Camb., M.A., B.Sc. Agr., Ph.D. Camb Lectr.

French
Casati, E., L. ès L. Lyons Lectr.
Gannon, Eric D., M.A. Camb. Asst.
Lenz, E. E. Asst.
Kindness, Jane, M.A. Asst.

Geography
McFarlane, J., M.A. Edin., M.Com. Manc., B.A. Camb. Reader.

Geology
Gibb, A. W., M.A., D.Sc. Prof.
Mackinnon, W. G., B.Sc. Asst.

German [Reader.
Bruford, W. H., M.A. Camb.
Mowat, J. L., M.A. Asst.
Dieth, E., Ph.D. Zür. Asst.

Hebrew and Semitic Langs.
Gilroy, J., D.D. St. And., M.A. Reg. Prof.

History, v. also Law, Theol.
Terry, C. S., M.A., Litt.D. and Hon. Mus.D. Camb., LL.D. Edin. Burnett-Fletcher Prof.
Simpson, W. D., M.A., D.Litt. Lectr. (British Hist.).
Henderson, J. M., M.A. Edin. Asst.

Law, v. *infra*

Logic [Reg. Prof.
Davidson, W. L., M.A., LL.D.
Milne, J. C., M.A. Part-time Asst.

Mathematics
Macdonald, H. M., O.B.E., M.A., F.R.S. Prof.
Goodwillie, J., M.A. Camb. & Edin., B.Sc. Edin. Lectr. & Asst.
Dodds, E. M., M.A., B.Sc. Asst.

Medicine, v. *infra*

Meteorology, v. Astron.

Music, v. Art

Natural History [Reg. Prof.
Thomson, J. A., M.A., LL.D. Edin.
Lectrs.:
Rennie, J., D.Sc. (Agr. Zool. and Parasitology).
Neill, R. M., M.A. Glas. (Zool.)
Rennet, Nita I., B.Sc. Asst. (Zool.).
Morrison, Thomas A., M.A., B.Sc. (Agr.) Asst. (Agr. Zool.).

Philology, v. Celtic

Philosophy, Moral
Laird, John, M.A. Edin., B.A. Camb. Reg. Prof.
de Selincourt, O. (v. Art) Asst.

Philosophy, Nat.
Thomson, G. P., M.A. Camb. Prof.
Fyvie, W. W., D.Sc. Lectr.
Geddes, A. E. M., O.B.E., M.A., D.Sc. Lectr.
Fraser, R. G. J., B.Sc. Asst.
Griffith, H. D., B.A. Camb. Asst.

Physiology [Reg. Prof.
MacWilliam, J. A., M.D., F.R.S.
Reid, C., M.A., B.Sc., M.B., Ch.B., D.P.H. Camb. (Expl. P.) Lectr.
Fiddes, J., M.B. Asst.
Orr, J. B., D.S.O., M.A., D.Sc., M.D. Glas. Research Lectr. (P. of Nutrition).

Political Economy
Gray, A., M.A. Edin. Jaffrey Prof.
Macdonald, Annie, M.A. (Lectr. in Pub. Finance) Asst.
Hamilton, H., M.A., D.Litt. Glas. (Econ. Hist.) Lectr.

Psychology, Comparative
McIntyre, J. L., M.A. Edin. and Ox., D.Sc. Edin. Anderson Lectr.

Public Speaking
Mursell, W. A., M A., D.D. (Asst. in English) Lectr.

Spanish
Davidson, C., M.A. Lectr.

Statistical Methods
Tocher, J. F., D.Sc. Croll Lectr.

Theology
Baird, A. C., M.A., B.D., B.Sc. Glas. (Bibl. Crit.) Reg. Prof.
Henderson, G. D., M.A., B.D. Glas. (Church Hist.) Reg. Prof.
Fulton, W., M.A., D.D., B.Sc. Glas. (Systematic T.) Prof.
Mitchell, Prof. W., M.A., D.Sc. (of Adelaide) Gifford Lectr.

Veterinary Hygiene and Agr. Bacteriology
Brown, Wm., B.Sc. (Agr.), M.R.C.V.S. Lectr.
Grant, J. C., M.R.C.V.S. Asst.

Zoology, v. For., Nat. Hist.

Law

Scots L., Roman L., Jurispr.
Stuart, A. M., K.C., LL.B. Edin., M.A. Prof.

Constit. L. and Hist.
Williamson, R. M., LL.B. Edin., M.A. Lectr.

Conveyancing
Morrison, A. C., O.B.E., M.A. St. And., LL.B. Glas. Lectr.
Masson, R. P., M.A., LL.B. Part-time Asst.

Internat. L., Public and Private
Duncan, G., M.A. Lectr.

Procedure and Evidence & Merc. Law for Comml. Students
Blacklaw, A., M.A. Clark Lectr.

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology, v. Path.

Forensic Med.
Hay, M., M.D., LL.D. Edin. Prof.
Richards, R., M.A., M.D., F.R.C.S.E. Asst.
Williamson, G., M.A., M.B. (Med. Ethics) Lectr.

Materia Medica
Marshall, C. R., M.A. Camb., M.D. Manc., LL.D. Reg. Prof.
Hendry, A. W., M.D. Asst.
Macdonald, T. J. C., M.B. Asst.

Medicine [Reg. Prof.
Mackintosh, A. W., M.A., M.D.
Anderson, A. G., M.A., M.D., M.R.C.P. Lond. Part-time Asst.

Midwifery [Reg. Prof.
McKerron, R. G., M.A., M.D.
Semple, R., O.B.E., M.D. Part-time Asst.

Pathology [Wilson Prof.
Shennan, T., M.D. Edin.
Gray, J., M.B. Edin. Asst.
Mackae, Edith M., M.A., M.B., B.Sc. Asst.
Cruickshank, J., M.D., D.Sc. Glas. Research Lectr. in P. (Cancer) and Reader in Bacteriology.
Kerrin, J. C., M.B. Asst. (Cancer Research).
Downie, A. W., M.B. Asst. ,, ,,

Public Health [Lectr.
Kinloch, J. P., M.D. Glas., D.P.H.
Berry, D. W., M.D. Lectr.
Middleton, E. L., M.D., D.P.H. Edin. Lectr. (*Factory Hygiene*).

Surgery
Marnoch, J., C.V.O., M.A., M.B., C.M. Reg. Prof.
Anderson, Wm., M.B., F.R.C.S. Asst.

Tropical Medicine
Williamson, G. A., D.T.M. Liv., M.A., M.D. Lectr.

Tuberculosis, Sanatorium Treatment of
Stewart, I. S., M.D. Edin. Lectr.

ASSOCIATED COLLEGES

North of Scotland College of Agriculture.
Robert Gordon Technical Colleges. Agricultural Engineering classes for candidates for the B.Sc. degree in Agr. are at present held here.

GENERAL INFORMATION (v. also p. 257)

The " University and King's College of Aberdeen," founded under a Papal Bull in 1494, and the "Marischal College," founded in 1593 by George Keith, Earl Marischal, were reconstituted in 1860 as " The University of Aberdeen." Certain of the original buildings remain, notably the Chapel (A.D. 1500).

The Library, founded in 1500, has 250,000 vols. and 200 Incunabula, some unique. It is especially rich in Celtic literature, and books bearing on

the history, topography, and antiquities of the Scottish Highlands, and Classical Archæology. Annual budget about £3500. MUSEUMS: Anthropological (illust. cat. 1s.), Surgical (2500 specimens and 600 instruments), etc. Besides the usual LABORATORIES there is the Rowett Institute of Research in *Animal Nutrition* near Bankhead, with departments of Physiology, Bio-Chemistry, Bacteriology and Pathology, and attached Animal Husbandry section for practical experiments in feeding, etc. It is under the management of a joint committee of the Univ. and the N. of Scotland College of Agric. Hospitals available for clinics: Infirmary, 230 beds; Children's, 85; Fever, 100; Mental Hospital, 700.

FACULTIES. Arts, Science, Divinity, Law, Medicine. Deans: Profs. Macdonald (Maths.), Findlay (Chemistry), Fulton, Stuart, Marshall.
Departments: Commerce, Education.

DEGREES, ETC. (v. p. 259). For Diploma courses in Agric. (3 yrs.) and Forestry (2 yrs.) there is a preliminary examn. in English and Maths. The papers in the Final examn. in Agric. are the same as those set for the B.Sc. Agr. Diplomas are also conferred in Public Health (D.P.H.) and in Fine Art (History and Theory). A Certificate in Fine Art is also given.
The following Univs. have been recognized by the Univ. Court *pro tanto* as institutions in which 3 of the requisite 5 yrs. of medical study may be taken, provided that the prescribed conditions with reference to such study are fulfilled: Bom., Calc., Mad., Adel., Melb., Syd., N.Z., S. Africa, Dal., Queen's (Kingston), Tor., McGill, Chic., Corn., J.H.U., Harv., Stanf., Mich., Penn., Yale. Individual teachers in other Univs. may be recognized upon satisfying the Univ. Court with respect to their courses. The following have been recognized in respect of courses and examns. in Bot., Zool., Biol., Physics, and Chem. qualifying for a degree in Science or in Arts or in Med.: Bom., Calc., Mad., All., Panj., Rangoon, Melb., Syd., Adel., Queen's (Kingston), McGill, Tor., Manit., S. Africa. The courses and examn. in Anat. and Physiol. for the Science degree of the Univ. of Cape Town have been recognized.

FEES (v. also p. 261). Inclusive fees for tuition: B.D., 40 gs.; LL.B., 40 gs. (28 gs. for a M.A. of the Univ.); B.L., 30 gs.; M.A. and B.Sc. taken together, 112½ gs.; M.A. and B.Com., 75 gs.; B.Sc. and B.Com., 112½ gs.; M.B., Ch.B., 126 gs.; M.A., M.B., Ch.B., 156 gs.; B.Sc., M.B., and Ch.B., 168 gs.; M.A., B.Sc., M.B., and Ch.B., 202 gs.; M.A. (Hons.), 60 gs.; B.Com., 45 gs.; B.Sc. (Ord.), 90 gs.; B.Sc. (Hons.), 100 gs.; M.A. (Hons.) and B.Sc., 127½ gs. The total cost of the whole medical curriculum, including hospital fees, classes, matricn., and degree fees, is usually about £236. The degree fees for the Doctorates are from 10 to 20 gs. The class and examn. fees for the D.P.H. amount to 36 gs.; for the Diploma in History and Theory of Fine Art, and for the Certificate in Fine Art to 8 gs. and 15 gs. respectively.

SCHOLARSHIPS, ETC., for graduates (v. also p. 261) about 25; aggregate annual value about £1600. *Travelling Scholarships*: Anderson, for medical graduates, about £200 p.a.; Kilgour, £250 for graduates in Natural Science or Natural History; Robbie, £100 p.a. in Maths., Nat. Philos., and Chem.

RESIDENCE. No Univ. Hostel. List of lodgings kept by Students' Repve. Council.

PUBLICATIONS. *Calendar* (Sept.), 4s. 6d.; *Univ. Review*, 7s. 6d. p.a. (3 issues); *Students' Handbook* (Nov.), 1s.; *Alma Mater* (organ of S.R.C.): *Univ. Libr. Bulletin*, 2s. 6d. p.a. (2 issues).

THE YEAR 1924–25

BENEFACTIONS. London-Morayshire Club (addition to Club Bursary endowment), £30; Wm. MacDonald bequest for bursaries, £208; Wm. Mackray bequest for bursaries, £2000; Mrs. Thurburn Wilson bequest for bursary, £1000; Prof. Wm. Martin bequest for prize in Christian Evidences, £1099; J. Chanock of Cape Town for memorial medal in Anatomy, £300; Archibald Carmichael bequest for chair of Bacteriology, £5000; Wm. Jackson bequest for Chair of Engineering, £3168; subscriptions to endowment of Chair in Forestry, £156; Mrs. E. O. Jackson bequest for Engineer's Equipment, £6563.

NEW ORDINANCES: relating to chairs of French, Bacteriology, and Forestry, and Superannuation of Principals and Professors. REGULATIONS for Honours Degree of B.Sc. in Agr.

NEW BUILDINGS, ETC. Reading-room for students adjoining Library (cost defrayed from sums subscribed by graduates). Women's Union completed, including Hall. Men's Union equipped with new system of heating and otherwise improved. A new Engineering building. Buildings lately occupied by the Forestry Dept. reconstructed and adapted for use of Dept. of Engineering. New buildings at Old Aberdeen for the Forestry Dept. Rooms formerly occupied by Dept. of Botany reconstructed to provide increased accommodation for Depts. of Bacteriology and Pathology. New system of low pressure water heating installed throughout the buildings at Marischal College. Meeting Room for Students Rep. Council completed and equipped by Rector's Assessor, late Sir J. Fleming, formally opened.

OTHER DEVELOPMENTS. The Court resolved to found Chairs in Bacteriology and in Forestry and, in conjunction with Royal Infirmary, a lectureship in Clinical Chemistry. Ordinance relating to Degrees in Science in Engineering are in course of completion. The Court decided to erect a new Examn. Hall and additional Class-rooms at King's College and acquired adjacent land, part of which is being laid out as additional playing fields.

HONORARY DEGREES CONFERRED. *D.D.*—The Bishop of Birmingham, Wm. Meston, G. R. Murison, H. Smith of Old Kilpatrick. *LL.D.*—H. Cowan, J. Curle, F. L. Griffith, J. F. K. Johnstone, G. Muirhead, Wm. Riddoch, G. C. Simpson, J. J. R. Macleod of Toronto, Wm. Ritchie of Cape Town.

OTHER DEGREES. Ph.D., 1; M.A., 210 (including women—121); D.Sc., 2; B.Sc., 33 (women—15); B.Sc.Agr., 13; B.Com., 7 (w.—1); B.D., 5; LL.B., 4 (w.—1); B.L., 1; M.D., 9; M.B. and Ch.B., 95 (w.—15).

STUDENTS. Matriculated, 1394 (w.—541); in Arts, 755 (w.—434); Sc., 235 (w.—67); Div., 15; Law, 23 (w.—1); Med., 318 (w.—38); Commerce, 48 (w.—1). Non-Matric., 110. Research, 24. Special classes for advanced students and others: Fine Arts, 90; Archit., 12; Fisheries, 10; Parasitology, 14; Tuberculosis, 37; Medical Ethics, 70; Vital Statistics, 3; Railway Law, 85; Biometry, 4. Post-graduate school of Theology, 5.

UNIVERSITY OF EDINBURGH

CHANCELLOR—Rt. Hon. THE EARL OF BALFOUR, K.G., O.M., D.C.L.

VICE-CHANCELLOR AND PRINCIPAL—Sir J. ALFRED EWING, K.C.B., M.A., D.Sc., LL.D., F.R.S.

RECTOR—Rt. Hon. STANLEY BALDWIN, M.P., LL.D. (elected 1923).

SECRETARY TO THE UNIVERSITY—W. A. FLEMING, M.A., LL.B., Advocate.

UNIVERSITY COURT

PRESIDENT—THE RECTOR, *ex officio.*

THE PRINCIPAL, *ex officio.*

The Rt. Hon. THE LORD PROVOST OF EDINBURGH, *ex officio.*

The Hon. LORD BLACKBURN.

The Hon. LORD CONSTABLE.

Bailie T. B. WHITSON.

R. M'KENZIE JOHNSTON, M.D.

J. ROBERTON CHRISTIE, O.B.E., K.C.

Sir NORMAN WALKER, M.D., LL.D.

J. B. CLARK, M.A.

Prof. T. P. LAIRD, M.A., C.A.

Prof. T. HUDSON BEARE, B.A., B.Sc., M.I.C.E.

Prof. NORMAN KEMP SMITH, M.A., LL D., F.B.A.

Prof. Sir ROBERT W. PHILIP, M.D., LL.D.

PROFESSORS, LECTURERS, ETC.

Accounting and Business Method
Laird, T. P., M.A., C.A. Prof.
Johnston, C. M'K., C.A. Asst.

Actuarial Science [Lectr.
Hutton, G. C., M.A., F.I.A.
Gwilt, R. L., F.F.A., F.I.A. Lectr.

Agriculture and Rural Economy, v. also Bot. and Forestry
..... Prof.
More, J. A., B.Sc. Lectr.

Agric. and Forest Entomol.
MacDougall, R. S., M.A., D.Sc. Reader.

Anatomy
Robinson, A., M.D. Prof.
Jamieson, E. B., M.D. Lectr.
Jardine, F. E., M.B. (A. and Applied A.) Lectr.

Anatomy, Comparative
Bradley, O. C., M.D., D.Sc. Lectr.
Grahame, Tom, M.R.C.V.S. Asst.

Anatomy, Morbid
Davidson, James, M.B. Lectr.

Anthropology and Prehistoric Archæol.
..... Munro Lectr.

Arabic
Bell, Richard, M.A , B.D. Lectr.

Art (Fine Art)
Brown, G. Baldwin, M.A. Ox., LL.D. Prof.
Nicolson, Catherine A., M.A. Asst.

Astronomy
Sampson, R. A., M.A.Camb., D.Sc., F.R.S. Reg. Prof.

Banking
M'Neil, A., S.S.C. Bruce Lectr.

Biology, v. Nat. Hist.

Botany, v. also Forestry
Smith, Wm. Wright, M.A., F.R.S. Reg. Prof.
Smith, J. L. S., M.A., B.Sc. (Forest B.) Lectr.
Matthews, J. R., M.A., B.Sc. Lectr.
Wilson, M., D.Sc. (Mycol. and Bacteriol.) Reader.
Graham, R. J. D., D.Sc. (Plant Physiol.) Lectr.
..... Asst.

Celtic Languages, etc. [Prof.
Watson, W. J., M A. Ox., LL.D.

Chemistry [Prof.
Walker, Sir James, D.Sc., F.R.S.
Kay, S. A., D.Sc. Lectr.
Rule, H. G., Ph.D., D.Sc. Lectr.
Shoesmith, John B., M.Sc. Lectr.
Ross, J. D. M., M.A., B.Sc. Lectr.
Bolam, T., M.Sc. Lectr.
Ludlam, E. B., B.A., D.Sc. Lectr.
Mackenzie, J. E., D.Sc., Ph.D. Reader.
Mitchell, R. K. S., B.Sc. Asst.
Mackenzie, Mary R., B.Sc., Ph.D. Asst.
Numbers, Annie H., M.A., B.Sc. Asst.
West, W., B.Sc., Ph.D. Asst.
Smith, John, B.Sc., Ph.D. Asst.
Fairweather, D. A., M.A., B.Sc. Asst.
Hoskings, A. A., B.Sc. Asst.
Coutie, A., B.Sc., Ph.D Asst.
Macfarlane, Walter S., B.Sc. Asst.

Chemistry in relation to Medicine
Barger, G., M.A. Camb., D.Sc., F.R.S. Prof.
Stewart, C. P., M.Sc. Durh. Asst.
Stedman, E., B.Sc., Ph.D. Lectr.
Stedman, Ellen, M.Sc. Asst.

Chemistry, Technical
Cottrell, Allin, M.Sc. Lectr.

Classics
Mair, A. W., M.A. Camb., Litt.D. Aberd. (Greek) Prof.
Fitzherbert, J. A., M.A. Camb. (Greek) Lectr.
Forbes, P. B. R., B.A. Camb. (Greek) Asst.
Richmond, O. L., M.A. Camb. (Humanity) Prof.
Mill, J., M.A. (Latin) Lectr.
Steuart, Ethel M., D.Litt. (Latin) Lectr.
Potter, K. R., M.A. Asst.

Commerce, and Organization of Industry
Oliver, W., B.Sc., A.M.I.C.E. (v. also Acc., Banking) Prof.

Commercial and Polit. Econ. and Merc. Law, v. also Law
..... Prof.
Birnie, A., M.A. (Econ. Hist.) Lectr.
Rankin, Mary T., M.A., D.Phil. Lectr.
Joynt, Thomas A., M.A. Lectr.
Fenelon, K. G., M.A. Lectr.
Carse, G. A., M.A., D.Sc. (Statistics and Math. Econ.) Lectr.

Cytology, v. Nat. Hist.

Divinity
Paterson, W. P., LL.D. Penn., M.A., B.D., D.D. Prof.
Bell, Richard, B.D. Gunning Lectr 1924–25.
Curtis, W. A., M.A., B.D., D.Litt., D.D. Reg. Prof. of Biblical Criticism & Bib. Antiq.
Mackinnon, J., M.A., Ph.D., D.D. Reg. Prof. of Eccl. Hist.
Frazer, Sir James G., O.M., LL.D., F.R.S. Gifford Lectr. on Natural Theol.
Martin, P'pal Alex., D D. Lectr.

Kennedy, Prof. H. A. A., D.Sc., D.D. Lectr.
Simpson, Prof. J. Y., D.Sc. Lectr.
Mackintosh, Prof. H. R., D.Phil., D.D. Lectr.
Watt, Prof. H., B.D. Lectr.
Welch, Prof. A. C., D.D., Th.D. Lectr.
Perry, P'pal W., D.D. Lectr.
Hughes, P'pal. G. H., B.D., D.Litt. Lectr.
Nicol, D. Bruce, B.D. Lectr.
Morrison, J., D.D. Asst.

Economics, v. Comm.

Education [Prof.
Thomson, Godfrey H, D Sc., Ph.D. (Dir. of Studies of the Provincial Training College).
..... Lectr.
Bickersteth, Marguerite E., Ph.D. Asst.
Young, Margaret, M.A., B.Ed. Asst.

Engineering
Beare, Sir Thos. Hudson, B.A., B.Sc. Adel., M.I.C.E. Reg. Prof.
Kerr, W. Hume, M.A., B.Sc. (Drawing, etc.) Lectr.
Todd, J. B., B.Sc., A.M.I.Mech.E. (Surv. & Hydraulics) Lectr.
Gordon, W., B.Sc., Ph.D., A.M.I.Mech.E. (Strength of Mats.) Lectr.
..... (Forest Engin.) Lectr.
Stewart, David S., B.Sc., A.M.I.C.E. Lectr.
Patterson, C., A.M.I.Mar.E. Lectr.

English Lit. and Rhetoric
Grierson, H. J. C., M.A. Aberd., B.A. Ox., LL.D. St. And. Reg. Prof.
Kitchin, G., M.A., D.Litt. Lectr.
Dickins, Bruce, M.A. Reader.
Hislop, Gordon, M.A. Lectr.
Clark, A. M. Asst.

Entomology, v. Agric.

Forestry, v. also Agric., Bot., Engin.
Stebbing, E. P., M.A. Prof.
Pike, J. L., M.A., B.Sc. Lectr.
Fergusson, D. C., B.Sc. Lectr.

French and Rom. Philol. [Prof.
Sarolea, C., K.O.L., Ph D., D.Litt. Liége, D.Jur. Cleve., LL.D.
Moore, J. M., M.A. Lectr.
Burns, Mary, M.A., D. de l'U. Paris Lectr.

Genetics, v. Nat. Hist.

Geography
Ogilvie, Alan G., M.A., B.Sc. Ox. Reader.
Lennie, Alice B., M.A., B.Sc. Lectr.

Geology
Jehu, T. J., M.A., M.D. Reg. Prof.
Campbell, R., M.A., D.Sc. (Petrology) Reader.
Finlay, T. M., M.A., B.Sc. (Palæont.) Lectr.
Craig, Robert, M.A., B.Sc. (Econ. Geol.)

German and Teutonic Philol.
..... Prof.
Schlapp, O., Ph.D. Reader.
Eggeling, H. F., M.A. Lectr.
Barker, Marie L., Ph.D. Research Fellow and Lectr.
Aulhorn, Frn. E. Asst.

Hebrew and Semitic Langs.
Kennedy, A. R. S, M.A., D.D. Glas. and St. And. Prof.
Cameron, D., B.D. Asst.

Histology, v. Physiol.

History, v. also Comm., Div., Mil.
Williams, A. F. Basil, M.A. Prof.
Heatley, D. P., M.A. (Political Science) Reader.
Balfour-Melville, E. W. M., M.A. Lectr.
Horn, D. B., M.A. Asst.

History, Ancient (Gk. & Roman)
Giles, A. F., M.A. Edin. and Ox. Lectr.

History, Ancient, and Palæog.
Hannay, R. K., M A. Glas., LL.D. St. And. and Ox. Prof.
Lemon, Miss E., M.A. Asst.

History, Colonial and Indian
Ewing, J., M.A. Lectr.

History, Const. Law and Const.
Dykes, D. O., LL.B. Prof.

Italian
Purves, J., M.A. Lectr.

Law, v. *infra*

Logic and Metaphysics, v. Philos.

Mathematics
Whittaker, E. T., M.A. Camb., Sc.D., F.R.S. Prof.
Horsburgh, E. M., M.A., D.Sc., A.M.I.C.E. Reader.
Gibb, D., M.A., B.Sc. Lectr.
Steen, S. W. P., M.A. Camb. Lectr.
Aitken, A. C., D Sc. Lectr.
Copson, E. T., B A. Lectr.

Mathematics, Applied
Schlapp, R., Ph.D. Camb. Lectr.

Medicine and Surgery, v. *infra*

Military History, Strategy, etc.
..... Lectr.

Mining [Hood Prof.
Briggs, H., Ph.D., D.Sc.

Music
Tovey, D. F., B.A., D.Mus. Ox., Mus.M. Reid Prof.
Shirlaw, M., Mus.D. Lectr.
Dunn, J. P., Mus.B. Lectr.

Natural History
Ewart, J. C., M.D., F.R.S. Prof.
Ashworth, J. H., D.Sc., F.R.S. Prof. (Zool.).
Patton, Major W. S., I.M.S. Lectr.
Stephenson, J., C.I.E., M.B., D.Sc. Lectr.
Purser, G. L., M.A. Lectr.
Hobson, A. D., M.A. Lectr. (*Cytology and Exp. Zool.*).
Crew, F. A. E., M.D., Ph.D., D.Sc. (Genetics) Lectr.
Harvey, Leslie A., B.Sc. Asst. (Zool.).

Palæontology, v. Geol.

Petrology, v. Geol.

Philology, v. French, Ger., Sansk.

Philosophy
Smith, N. Kemp, M.A., D.Phil. St. And., LL.D. Prof.
Hardie, R. P., M.A. (Ancient P.) Reader.
Anderson, J., M.A. Lectr.
Porteous, A. J. D., M.A. Asst.

Philosophy, Moral, v. also Psych.
Taylor, A. E., M.A., D.Litt. Prof.
Barker, H., M.A. Lectr.
Maclennan, R. D., M.A. Asst.
Rainer, A. C. A., M.A. Asst.

Philosophy, Natural [Prof.
Barkla, C. G., M.A. Camb., D.Sc. Liv., F.R.S., Nobel Laureate.
Darwin, C. G., M.A. Camb., F.R.S. Tait Prof.
Carse, G. A., M.A., D.Sc. Reader.
Robinson, H., D.Sc. Manc. Reader (Physics).
Milne, J. R., D.Sc. Lectr.
Childs, B., D.Phil. Lectr.
Watson, W. H., M.A. Lectr.
Mackenzie, Gladys I., M.A. Asst.
Cassie, A. M., M.A., B Sc. Asst.
Cranfield, R. V. Asst. (Mechanics).

Physics, v. Philos.

Physiology
Schafer, Sir E. A. Sharpey, LL.D., F.R.S. Prof.
Taylor, W. W., M.A., D.Sc. Lectr. (*Chemical P.*)
Walker, May L., M.A., B.Sc., M.B. (Histol) Lectr.
Bruce, A. N., M.D., D.Sc. (P. of Nervous System) Lectr.
Ponder, E., M.B., D.Sc. Lectr.
Dryerre, H., Ph.D., M.R.C.S ,,
Macdonald, A. D., B.Sc., M.B. Asst.

Pol. Econ, Sc., v. Comm., Hist.

Psychology
Drever, J., M.A., B.Sc. Lond., D.Phil. Reader.
Collins, Mary, M.A., B.Ed., Ph.D. Lectr.
Robb, Janet, M.A., B.Ed. Asst.

Public Health
Lelean, P. S., C.B., C.M.G. Prof.
Young, J. B., M.B., D Sc. Lectr.
Hood, Helen R. T., M.B., D.P.H. Lectr.

Rhetoric, v. English

Sanskrit and Comp. Philol.
Keith, A. Berriedale, M.A, D.Litt., D.C.L. Reg. Prof.

Semitic Langs., v. Hebrew

Spanish
Walton, L. B., M.A. Lond. Lectr.
Wilson, John, M.A. Asst.

Statistics, v. Comm.

Theology, v. Divinity

Zoology, v. Nat. Hist.

Law

Administrative
Wood, P. F., M.A., LL.B., M.A. Ox. Lectr.

Agricultural
Cowan, John, LL.B., K.C. Lectr.

Civil
Mackintosh, J., K.C., M.A. St. And., B.A. Ox., LL.D. Prof.
Mackintosh, C., B.A., LL.B. Asst.

Constitutional, v. Hist.

Conveyancing
Wedderburn, E. M., LL.B., D.Sc., W.S. Prof.
Smith, R. Colley, B.A., LL.B. Asst.

English Law
Chisholm, J., K.C. Lectr.

Evidence and Procedure
Lewis, W. J., M.A. Ox., B.L., S.S.C. Reader.

International Private Law
Garrett, Wm., M.A., LL.B. Lectr.

International Public Law
Wilson, Wm., M.A., LL.B. Reg. Prof.

Mercantile Law, v. also Comm.
Aitken, H., K C. Reader.
Lillie, J. A., LL.B. Asst.

Scots Law [Prof.
Henderson, R. C., K.C., LL.B.
Simpson, T. B., LL.B. Asst.

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology, v. Path.

Children, Diseases of
..... Senr. Lectr.
M'Neil, C., M.D. Lectr.
Carmichael, N. S., M.B. Lectr.
Hertzfeld, Gertrude, M.B. Lectr.
Dott, N., M.B. Lectr.
Thatcher, L., M.D. Asst.
Murray, J. M'N., M.B. Asst.
Finlay, T. Y., M.D. Asst.

Dermatology, Clinical
Gardiner, F., M.D. Lectr.
Low, R. C., M.D. Lectr.
Percival, G. H., M.B. Asst. (in D. and Mat. Med.).

Eye, Diseases of the
Paterson, J. V., M.B. Senr. Lectr.
Sinclair, A. H. H., M.D. Lectr.
Traquair, H. M., M.D. Lectr.
Cameron, E. H., M.B. Lectr.
Ligertwood, Laura M., M.B. Asst.
Wilson, Roland P., B.Sc., M.B. Asst.

Forensic Med. [Reg. Prof.
Littlejohn, H., M.A., M.B., B.Sc.
Kerr, Douglas, M.B. Lectr.
Mason, Victor H., M.D.

Gynæcology, Syst. and Clin.
Ferguson, J. Haig, M.D. Lectr.
Fordyce, W., M.D. Lectr.
Johnstone, R. W., M.A., M.D. Lectr.
Davidson, H. S., M.B. Lectr.
Young, James, M.D. Lectr.
Miller, D. A., M.B. (also in Midw.) Asst.

History of Med. [Lectr.*
Comrie, J. D., M.A., B.Sc., M D.

Infective Fevers
James, A., M.D. Lectr.
Benson, W. T., M.D. Lectr.
Aitken, R , M D. Lectr.

Laryng., Ot., and Rhinology
Fraser, J. S., M.B. Lectr.
Lithgow, J. D., M.B. Lectr.
Gardiner, W. T., M.B. Lectr.
Martin, G. E., M.B. Lectr.
Gibson, M. J., M.B. Asst.

Materia Medica
Cushny, A. R., M.A., M.D , LL.D., F.R.S. Prof.
White, A. C., Ph.D. Lectr.
Crawford, J. H., M.B. Asst.
Macfarlane, A., M.B. Asst.
Masson, G A., M B Asst.

Medicine and Clin. Med.
Gulland, G. L., C.M.G., M.A., B.Sc., M.D. Prof.
Mathewson, G. D., M.D., B.Sc. Asst. (Med).*

Medicine, Clinical
Bramwell, E., M.D. Moncrieff-Arnott Prof.
Fleming, R. A., M.D. Sr. Lectr.
Watson, D. C., M.D. Sr. Lectr.
Matthew, E., M.D. Sr. Lectr.
Eason, J., M.D. Sr. Lectr.
Ritchie, W. T., M.D. Sr. Lectr.
Goodall, A., M.D. Lectr.
Wemyss, H. L. W., M.D. Lectr.
Comrie, J. D., M.D. Lectr.
Mathewson, G. D., M.B. Lectr.
Hewat, A. F., M.B. Lectr.
Lambie, C. G., M.B. Lectr.
Small, W., D.D., M.D. Lectr.
Rutherford, A., M.B. Lectr.
Smith, G. L. M., M.B. Asst.

Mental Diseases, v. Psychiat.

Midwifery, v. also Gyn.
Watson, B. P., M.D. Prof.
Haultain, W. F. T., M.B. Lectr.
Young, James, M.D. Lectr.
Browne, F. J., M.D. Lectr.
Miller, D. A., M.B Asst.

Neuro-Pathology
Reynolds, F. E., M B Lectr.

Orthopædics
..... Lectr.

Pathology and Bacteriology, v. also Anat.—Morb.
Smith, J. Lorrain, M.A., M.D., LL.D., F R.S. Prof.
Mackie, T. J , M.D. Irvine Prof (Bact).
Alexander, W A , M.B. Lectr.
Buchanan, G., M B. Lectr. in B.
Rettie, T., D.Sc. Lectr.
Macgregor, Agnes R., M.B. Asst.
Grierson, A. M. M., M.B. Asst. (Bact.).
Carmichael, R , M.B. Asst.
Millar, W. G., M B. Asst.
McLachlan, D. G. S , M.B. Asst. (Bact.).
Muir, R. Demr. of Methods.

Psychiatry
Robertson, G. M., M.D. Prof.
M'Alister, W., M.B. Asst.

Pub. Health, v. *supra*

Radiology and Electrical Therapeutics
Morison, J. M. Woodburn, M.B. Lectr.

Surgery
Wilkie, D. P. D., O.B.E., M.D., Ch.M. Prof.
..... Asst.

Surgery, Clinical
Fraser, J., M.D., Ch.M. Reg. Prof.
Skirving, A. A. S., C.M.G., M.B. Senr. Lectr.
Chiene, G. L., M.B. Senr. Lectr.
Stuart, W. J., M.B Senr. Lectr.
Struthers, J. W., M.B. Senr. Lectr.
Wade, H., M.D. Senr. Lectr.
Hartley, J. N. J., M.B. Lectr.

* Lectr. in Clin. Med.

Graham, J. M., M.B., Ch.M. Lectr.
Watson, A. Pirie, Ch.M. Lectr.
Mercer, W., M.B Lectr
Brown, K. P., M.B. Asst.
Shaw, J. J. M., M B. Lectr.
Jardine, F. E., M.B. Lectr.
Wood, W. Q., M.D., Ch.M. Lectr.
Cochrane, W. A., M.B. Asst.
Millar, T. W., M.B. Asst.

Therapeutics and Clinical Medicine

Lyon, D. Murray, M.D., D.Sc. Prof.
Davies, H. W, M B, B.Sc. Lectr. (Clin. Exp. Methods).
Robson, W., B.Sc. Asst.

Tropical Climates Diseases

Greig, Lt.-Col. E. D. W., C.I.E., I.M.S. Lectr.

Tuberculosis

Philip, Sir Robert W., M.A., M.D., LL.D. Prof.
Hewat, A. F., M.B. Asst.*
Simpson, J. C., M.B. Asst.

Venereal Diseases

Lees, David, M.D. Lectr.
Batchelor, R. C. L., M.B. Asst.
Liston, Mary F., M.B. Asst.

University Extension

22 Tutors, including 5 Univ. Profs. and 11 Univ. Lectrs.

* Lectr. in Clin. Med.

ASSOCIATED COLLEGES, in which Univ. courses are provided at Edinburgh.

EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE. Principal, Ernest Shearer, M.A., B.Sc.

HERIOT-WATT COLLEGE. Principal, A. P. Laurie, D.Sc.

NEW (UNITED FREE CHURCH) COLLEGE. Principal, Alex. Martin, D.D.

ROYAL (DICK) VETERINARY COLLEGE. Principal, O. C. Bradley, M.D., D.Sc.

GENERAL INFORMATION (v. also p. 257)

Originally the "Town's College," founded in 1583 by the Town Council under general powers granted by Royal Charter, April 14, 1582. The Old College on the site of "Kirk o' Field," the scene of the murder of Lord Darnley, was designed by Robert Adam, and completed in 1838. Newer buildings include the M'Ewan Hall (1888–97), in theatre form, which holds 2600 people and has a great electric organ; and "The King's Buildings" (1920–24) for Chemistry and other Science Departments. The Medical School of this Univ. has been famous for many generations; specially ample provision exists also for instruction and research in Theology (post-graduate school instituted 1919), Agric., Forestry, Engin., Mining, and Vet. Sc. Edinburgh is the seat of the Scottish Supreme Courts of Law.

LIBRARY, founded in 1580, 350,000 vols., 8000 MSS., includes special collections—Shakespearean, Sanskrit, Celtic, Persian, and Arabic MSS., Economics (Hodgson), Math. tables by E. Sang, transactions of Engin. Societies in Great Britain and America. MUSEUMS: Nat. Philos., Fine Art, Geol., Nat. Hist., Chem., Forestry, Agric., Entom. and Forest Zool. (Waterhouse collection of Coleoptera), Anat. (founded with the Monro collection in 1800; numerous specimens of Cetacea and human crania), Physiol., Mat. Med. (notable collections of medicinal and food substances, including those of Duncan and Christison),

Forensic Med., Practice of Physic, Surg., Obst. (Simpson collection), Music and Musical Instruments. The Prof. of Botany is Regius Keeper of the *Royal Botanic Garden*; the Prof. of Astronomy is Astronomer Royal for Scotland and gives practical courses at the *Royal Observatory*. The LABORATORIES are especially well equipped for research in Anatomy, Anthropology, Bacteriology, Chemistry (the new Laboratories at King's Buildings, which were completed in 1924, have accommodation for about 400 students), Engin. (notably Hydraulics, Strength of Materials, Elec. Engin.), Mat. Med., Path., Physics, Physiol., Psych., Pub. Health (Institute built 1902, costing £21,000). The Univ. has a table at the Millport Marine Station. HOSPITALS: the Royal Infirmary adjoining the Univ. provides over 900 beds for clinical teaching, in addition to the Children's, Maternity, and Fever Hospls., and Lunatic Asylums. Over 50 resident posts in these are given annually to Med. graduates.

FACULTIES. (1) Arts, (2) Science (including Engineering, Mining and Metallurgy, Technical Chemistry, Public Health, Agriculture, Forestry, and Veterinary Science, as well as Pure Science), (3) Divinity, (4) Law, (5) Medicine, (6) Music. Deans: (1) Prof. E. T. Whittaker (Mathematics), (2) Prof. Hudson Beare (Engin.), (3) Prof. Paterson, (4) Prof. Mackintosh, (5) Prof. Lorrain Smith (Path.), (6) Prof. Tovey.

DEGREES AND DIPLOMAS (v. Scottish Univs.). A diploma in *Education* is granted on completion of Univ. courses (1 yr.) and passing examns. in Psych., Theory and Hist. of E., and modern E. Systems and Problems. Candidates must have attended a course of Professional training or have had at least 3 yrs.' experience as a teacher, and must have completed a graduation course in Arts. Diplomas are also granted in *Actuarial Mathematics* (2 yrs.), *Forestry* (2 yrs., open only to ex-service men and Indian students selected as Forest probationers who have taken an Honours degree in Science at an Indian Univ.), *Geography* (open to graduates or students about to graduate in Arts or Science), *Technical Chemistry* (open to graduates who have taken a degree in Science with Honours in Chemistry), and a Diploma and a Certif. in *Social Study*.

A candidate for the B.Sc. in *Vet. Sc.* must (i.) have passed the Prelim. examn. for degrees in Sc., (ii.) have been engaged in Vet. study for 4 yrs., (iii.) have a registrable qualification, (iv.) have attended certain specified courses, including 1 yr. of study in this Univ. The Royal (Dick) Vet. Coll., Edin., provides certain of the qualifying courses.

The 1st examn. for the B.Sc. in *Pub. Health* is open to graduates in Med. of Univs. of the U.K., or McG., Queen's (Ont.), Panj., Harv., Bruss., or Würz., on conditions which include study during 5 mos. in the Edin. Pub. Health Lab. The 2nd examn. may not be taken until 6 mos. after passing the 1st.

Diplomas in *Pub. Health* (1 yr. course), in *Tropical Med. and Hygiene* (16 mos.), and in *Psychiatry* (1 yr.), are open to graduates of the Univ. and registered Med. practitioners.

Candidates for the *Mus.B.* must have passed the Arts or Sc. Prelim. examn., or its equivalent, and attended a course in this Univ. during a whole winter session. A Mus.B. of 3 yrs.' standing may offer himself for the Mus.D. (which may also be conferred *honoris causa*) as Composer, as Executant, or as Theorist or Historian.

RECOGNITION OF INSTITUTIONS AND TEACHERS outside the United Kingdom: (*a*) For exemption from one (not the final) year of the course for M.A. or for B.Com. and from attendance on classes in and examn. in two subjects for the Ordinary Degree: the following Univs.—Alb., Dal., McG., Manit., Queen's (Kingston), Tor., Adel., Melb., Syd., N.Z., S. Africa, All., Bom., Calc., Mad., Panj., Paris, Tokyo, Osaka, Sendai, and such other Univs. as the Univ. Court

may from time to time approve; graduates of the American institutions listed in Appendix XXV.

(*b*) For some of the courses for the B.Sc.: Madras Coll. of Agric., Colls. affiliated up to B.A. and B.Sc., and Engin. Colls. affiliated to the Indian Univs., Univs. and Polytech. Sch. supported and regulated or recognized by Govts. in Europe.

(*c*) For admission as graduate in Arts to the LL.B. examn.: the Univs. of All., Calc., Mad. V. also (*f*).

(*d*) For 2 of the 3 yrs.' study for LL.B.: McGill Univ., Madras Law Sch., Law Coll., Trevandrum, Ripon Coll., Calc.

(*e*) For 3 of the 5 yrs. of Med. study: recognized teachers in Singapore (in Physiol. and Practice of Med.) and Wellington, S. Africa (in Chem.).

(*f*) For admission of graduates from these institns. to study for the Ph.D. degree (General Recognition is also granted to them in terms of the various Graduation Ordinances): the following Univs.—Dal., King's Coll. (N.S.), Laval, McG., Manit., Queen's (Ont.), Tor., Adel., Melb., Queensland, Syd., W. Aust., N.Z., Cape Town, S. Africa; all Colleges affiliated to these Univs.; Univs. and Colls. approved by the Assocn. of American Univs. V. App. XXV.

POST-GRADUATE COURSES in Medicine are held during the Summer and Autumn Terms and the *Summer Vacation*. Particulars obtainable from the Hon. Sec., P.-G. Courses in Med. Univ. New Buildings, Edinburgh. The Post-graduate School of Theology has issued a detailed list of courses for 1925–26. Graduates contemplating research should apply to the Deans. V. also p. 261.

SCHOLARSHIPS. Total annual value over £22,000; for graduates only, £6000. Most are open to colonial and foreign students. The Earl of Moray's Endowment provides about £1200 p.a. for *research*. V. also p. 261.

Travelling for study or research is encouraged by Dickson Fund (£90 p.a.), Dundas Latin Studies Fund (£45 p.a.), Drummond Mathematical Scholarship (£135 p.a. for 3 yrs.), Maclaren Mathematical Scholarship (£170 for 3 yrs.), Scott Scholarship for Graduates in Arts (£70), M'Cosh Bursaries for Graduates in Medicine (£300).

FEES. (*N.B.*—See also p. 261.) Inclusive tuition fees for LL.B., 42 gs.; B.L., 30 gs.; B.Sc. Engin., 90 gs.; Agr., Ord., 90 gs., Hons., 120 gs.; Mining, 105 gs.; Forestry, 105 gs.; Technical Chemistry, 120 gs.; Pure Sc., 100 gs.; B.D., 33 gs.; M.B., Ch.B., including Hospl. Fees, 205 gs. Combined M.A. and B.Sc. in Pure Sc., 130 gs.; M.A. and B.Sc. in Agr. or Engin., M.A. and B.Com. or LL.B., 70 gs.; M.A. and B.L., 65 gs.; B.Sc. in Agr. and in For., 135 gs. Graduation examns.: M.A., 7½ gs.; B.D., 7½ gs.; LL.B., 9 gs.; B.L., 7½ gs.; Mus.B., 15 gs.; Mus.D., 15 gs.; Ph.D., 10 gs.; B.Sc., 9 gs.; D.Sc., 15 gs.; M.B., 33 gs.; M.D., 20 gs.; Ch.M., 20 gs.

HALLS OF RESIDENCE, ETC. For men: University Hall on a self-governing basis (information from Messrs. Whitson and Methuen, 21 Rutland Street). Board and lodging about £2 : 12 : 6 a week. For women: East Suffolk Rd., Craigmillar Park (Warden), £50 for the three terms; Masson Hall, 31 and 32 George Square (Warden); and Muir Hall, 12 George Square (Warden), 33s. 6d. to 47s. 6d. Six months' notice generally necessary.

There is a Franco-Scottish Society for advising and assisting French students in Scotland and Scottish students in France. It has local centres at Glas., Aberd., and Dundee.

Indian Students' Adviser: Maj. J. E. Mackenzie, D.Sc.

UNIV. EXTENSION, ETC. The Univ. is now represented on the Advisory

Committees for the management of the Tutorial Classes for adults instituted by the Edin. Educational Authority, in co-operation with the Workers' Educnl. Assocn. Summer Classes (4 weeks) for Teachers are held during vacation, the lecturers being drawn mainly from the Univ. staff. Certificates gained at the courses qualify for endorsement on teachers' certificates.

OFFICIAL PUBLICATIONS. The *Calendar* (Aug.), 5s.; the *Prelim. and Degree Examn. Pps.* (May and July), 5d. to 2s. a set (James Thin, 55 South Bridge). The *Students' Handbook* issued by the Students' Representative Council. Facilities for advanced Study and Research free on application.

THE YEAR 1924–25

BENEFACTIONS. Lord Abercromby bequest, £12,000 towards foundation of Chair of Prehistoric Archæology; Sir Alexander Grant, £50,000; various gifts to the amount of £16,000; Dr. A. H. F. Barbour, £1404 for raising value of the Freeland Barbour Fellowship from £120 to £260; Forestry Commissioners, £500 for Research in Forest Mycology; Miss Catherine S. Howden bequest, £5000 for a Scholarship for Research work; Mrs. John Harrison, £50 towards printing of Research papers by members of the Univ.; Miss Margaret M. C. Tod, M.B., about £90, being amount of Scholarships and Prizes awarded to her on graduation, to be applied for the benefit of needy medical students; anonymous £1000 for two bursaries for students from the Island of Lewis; £1000 from Mr. Thomson, brother of late Prof. of Surgery, towards cost of reconstructing the Surgical Museum.

NEW BUILDINGS. A new Clinical Medicine Laboratory was under construction on a site provided by the Managers of the Royal Infirmary, funds for the building and initial equipment having been provided by the Rockefeller Foundation; a new Surgical Laboratory was also under construction at an estimated cost, including equipment, of £15,000; the Court voted £8000 from the funds given by the Treasury and Carnegie Trustees for needs of students, towards provision of two new Hostels for Women Students.

NEW DEPARTMENTS OR POSTS. Lectureships in Neuro-pathology and in Electrical Therapeutics and Radiology. The Lectureship in Organization of Industry and Commerce was raised to the status of a Chair.

ORDINANCES (1) amending Regns. for Degrees in Science in Forestry and in Engineering; (2) founding a Chair of the Organization of Industry and Commerce; (3) (common to the four Scottish Univs.), amending the Regns. for Degree of B.D. The REGULATIONS for the Diploma in Psychiatry were revised. An Honours Course in Experimental Psychology for the B.Sc. was established.

OTHER NEW DEVELOPMENTS. The Reid Symphony Orchestra—associated with the Dept. of Music, and conducted by the Prof. of Music, formed itself into a self-governing body, and the Univ. Court and the Senatus granted it their official patronage.

RELATIONS WITH OTHER INSTITUTIONS. An Agreement was made between the Univ. Court and the National Committee for the Training of Teachers, whereby the duties of the Prof. of Education in the Univ. shall be associated with those of the Director of Studies in the Edinburgh Training Centre.

RECOGNITION OF COURSES OR EXAMINATIONS. The following were recognized: Univ. of British Columbia, Agric. College, Giza, and Agric. College, Poona.

RESIGNATIONS. Sir Harold Stiles; Sir Richard Lodge, succeeded by Prof. A. F. Basil Williams from McGill Univ.; J. H. Millar; J. F. Rees, appointed Prof. of Commerce at Birmingham, succeeded by A. Birnie from Aberdeen; J. S. Nicholson; W. W. McClelland, apptd. Prof. of Educn. at St. Andrews; J. E. McCartney, apptd. Director of Path. services to Metropolitan Asylums Board; A. Miles. DEATHS: J. Stewart Fowler, Claude Ker. LEAVE granted to Prof. Stebbing to visit India and to Major W. S. Patton to investigate Kala Azar disease for the Royal Society.

OTHER OCCURRENCES. The Inter-State Post-graduate Assembly of America visited the Univ. Use of rooms was granted to Royal Sanitary Institute for annual congress. 175 Canadian undergraduates (visiting Edinburgh under auspices of Overseas Education League) were entertained by the Univ. Court and S.R.C. Grants were made to Men's Athletic Club (£970), Women's Club (£150), Univ. Union (£300), W.E.A. (£100). *Vacation Courses* for teachers on English Literature, Geography, and Physics; for graduates in Medicine and Surgery.

HONORARY DEGREES CONFERRED. *LL.D.*—H.R.H. The Prince of Wales; C. H. Mayo (of Rochester, U.S.A.), Sir Charles Addis, A. H. F. Barbour, Br. Genl. the Hon. C. G. Bruce, G. K. Chesterton, A. S. Eddington, Sir Alexr. Grant, G. J. Lidstone, Rt. Hon. J. R. Macdonald, A. Miles, R. Muir, C. Grant Robertson, Sir Harold Stiles, T. F. Tout, J. Watt. *D.D.*—J. du Plessis, J. Hall, K. Hewat, W. Main, T. Tatlow.

OTHER DEGREES. M.A., 302 (including women—182); M.B., Ch.B., 265 (women—52); B.Com., 25 (w.—2); B.Sc. Pure Science, 50 (w.—19); B.Sc.Engin., 48; B.Sc.Mining, 3; B.Sc.Tech.Chem., 2; B.Sc.Agric., 25; B.Sc.Forestry, 13; B.Sc.Vet., 2; Mus.Bac., 4 (w.—2); B.Ed., 2; LL.B., 7; B.L., 5; B.D., 7; M.D., 33 (w.—4); Ch.M., 1; D.Sc., 9; Ph.D., 30 (w. 6; Div. 6, Arts 10, Law 1, Med. 1, Science 12); D.Litt., 1.

STUDENTS. Full-time, preparing for first degree, total 3131 (including women—1022); in Arts, 1422 (w.—785); Div., 26 (w.—1); Law, 75 (w.—2); Music, 26 (w.—15); Science, 205 (w.—49); Medicine, 1070 (w.—168); Engin., 170; Agric., 55 (w.—2); Forestry, 37; Vet., 18; Mining, 13; Tech. Chem., 14. Full-time, preparing for first diploma, 41 (w.—16). Graduate students undertaking research work or advanced courses, full-time, 154 (w.—48); part-time, 21 (w.—2). Occasional, 512 (w.—108). Enrolled for submitting theses, etc., 104 (w.—10).

UNIV. EXTENSION. Tutorial Class Students, 1013 (w.—645).

UNIVERSITY OF GLASGOW

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RECTOR—The Right Hon. Sir AUSTEN CHAMBERLAIN, K.G, M.P. (elected 1925).

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QUEEN MARGARET COLLEGE

Mistress—Miss F. H. MELVILLE, M.A., B.D.

UNIVERSITY COURT

THE RECTOR, *ex officio.*

THE PRINCIPAL, *ex officio.*

THE LORD PROVOST OF GLASGOW, *ex officio.*

The Right Hon. LORD MACLAY, LL.D.

WM. BRODIE, B.L.

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Prof. T. H. BRYCE, M.D., F.R.S.

Prof. GLOAG, K.C., LL.D.

Prof. W. MACNEILE DIXON, Litt.D., LL.D.

Prof. G. G. HENDERSON, M.A., D.Sc., LL.D., F.R.S.

PROFESSORS, LECTURERS, ETC.

Anatomy

Bryce, T. H., M.A., M.D. Edin., F.R.S. Reg. Prof.

Hutton, W. K., M.A., M.B., C.M. Lectr.*

Maclaren, Norman, Ph.D. (Embryology) Lectr.

Blair, D. M., M.B. (Regional A.) Lectr.

Patrick, Wm., M.B., Ch.B. Demr.

Bingham, J. A., M.B. Demr.

Miller, W. B. D., M.B. Demr.

Dickson, Lilian, M.B. Demr.*

Davidson, A.M., M.B. Demr.*

* At Queen Margaret Coll.

Nicol, T., M.B. Demr.
2 part-time Demrs.

Arabic
Weir, T. H., D.D., M.R.A.S. Lectr.

Astronomy
Becker, L., Ph.D. Bonn. Reg. Prof.
Connell, J., M.A. Lectr.
Ross, John J., M.A. Demr.

Botany
Drummond, J. Montagu F., M.A., F.L.S. Reg. Prof.
Williams, Samuel, M.Sc. Lectr.
Thomson, J., M.A., B.Sc., Ph.D. Lectr.
Wardlaw, C. W., B.Sc., Ph.D. Asst
Thomson, Jane N., B.Sc. Asst.

Celtic [Lectr.
Calder, G., B.D., D.Litt. Edin.

Chem., v. also Physiol.
Henderson, G. G., D.Sc., F.R.S., LL.D. St. And. Reg. Prof.
Bolam, H. W., B.Sc. Edin., Ph.D. Lectr.*
Knox, J., D.Sc. Aberd. Lectr. for Med. Students.
Roberts, J., M.A., F.C.S. Lectr.
Henderson, A., M.A., B.Sc. Lectr.
M'Millan, A., M.A., D.Sc. Lectr. (Analytical Chem.)
Morrison, Jane, M A. Asst.*
Sword, J., M.A., B.Sc. Asst.
Lewin, Christina T., B.Sc. Asst.
M'Laren, Isabella, B.Sc. Asst.
Robertson, J. M., B.Sc., Ph.D. Asst.
Chisholm, D., B.Sc., Ph.D. Asst.
Stewart, Eliz. C., M.A., B.Sc. Asst.*
Gibson, D. T., M.Sc., Ph.D. Asst.
4 Research Assts.

Chem., Organic
Patterson, T. S., D.Sc. Lond. & Glas., Ph.D. Heid. Gardiner Prof.
Tucker, S. H., M.A. Ox., Ph.D. Lond. Lectr.
Buchanan, C., B.Sc., Ph.D. Asst.
Fulton, J. D., M.A., B.Sc. Asst.
Semple, Jean M., B.Sc. Asst.
Stevens, T. S., B.Sc. Asst.
Kent, Andrew, M.A., B.Sc. Asst.
2 tempy. Assts.

Chem., Physical
Wright, Robert, D.Sc. Belf. Lectr.
Smith, R. Christie, M.A., B.Sc., Ph.D. Carnegie Teaching Fellow.
Mitchell, Stotherd T. R. S., B.Sc. Asst.

Classics, v. also Philol. [Prof.
Davies, G. A., M.A. Camb. (Greek)
Rennie, W., M.A. (Greek and Hellenistic G.) Lectr.
Gomme, A. W., B.A. (Greek History) Lectr.
Kitto, H. D. F., B.A. (Greek) Asst.
Phillimore, J. S., M.A. Ox., LL.D. St. And., D. Litt. (Humanity) Prof.
Austin, R. G., B.A. (Humanity) Asst.
Nisbet, R. G., M.A. (Latin) Lectr.
M'Glynn, P., M.A. (Latin) Lectr.
Burn, R., B.A. (Latin) Lectr.

Divinity, v. also Hebrew
Reid, H. M. B., D.D. St. And. Primar. Prof.
Milligan, Very Rev. G., D.D. Aberd., D.C.L. Durh. (Bibl. Crit.) Reg. Prof.
Main, A., M.A. Glas., B.A. Ox., D.Litt., D.D. (Church Hist.) Reg. Prof.
Haldane, J. S., M.A., M.D., LL.D. Gifford Lectr. in Natural Theology.

Economics, v. Pol. & Social Econ.

Education [Lectr.
Boyd, W., M.A., B.Sc., D.Phil.
Smith, J. W. D., M.A. Asst.

Embryology, v. Anat.

* At Queen Margaret Coll.

Engineering, v. also Naval
Goudie, W. J., D.Sc.
J. Watt Prof. of Theory and Practice of Heat Engines.
Brown, R. M., B Sc., Ph.D. Lectr.
Scobie, J., B.Sc. Lectr.
Vost, J., B.Sc. Lectr.
Morrison, J. C., B.Sc. Lectr.
Small, J., B.Sc. Lectr.
Thom, A., B.Sc. Lectr.
Geyer, E. W., B.Sc. Lectr.
3 Assts.

Engin., Civil and Mech.
Cormack, J. D., C.M.G., C.B.E., D.Sc. Reg. Prof.
Keown, J. E., B.Sc. (Drawing and Design) Lectr.
Hewett, A. F., B.Sc. Lectr.

Engineering, Electrical
Howe, G. W. O., D.Sc. Durh. and Adel. J. Watt Prof.
Hague, B., M.Sc. Lectr.
Small, A. J., B.Sc. Asst.

English Language and Literature
Dixon, W. M., Litt.D. Dub., LL.D. Aber. Reg. Prof.
Bickersteth, G. L., M.A. Lectr.
Girvan, R., M.A. (Eng. Lang.) Lectr.
Alexander, P., M.A. Lectr.*
Sutherland, J R., M A. Lectr.
Gray, Margaret M., M.A. Lectr.
Wright, Bernard A., B.A. Lectr.
2 Assts.

French
Martin, C. A., M.A. Paris, O.I.P., Ch. L.H., C.G. Prof.
Pitoy, L. M., B.Sc., L. ès L. Phil. Lectr.
Pitoy, Mary C., M.A. Lectr.
Ferguson, Marjorie M., M.A., L. ès L. Lectr.
Cordier, M. Lectr.
3 Assts.

Geography
Stevens, A., M.A., B.Sc Lectr.
2 Assts.

Geology [Prof.
Gregory, J W., D.Sc. Lond., F.R.S.
Tyrrell, G. W., Ph.D., A.R.C.Sc. Lectr.
Neilson, Agnes T., M.A. Lectr.
Weir, J., M.A., Ph.D. Lectr.
Barrett, B. H., M.A., B.Sc. Carnegie Teaching Fellow.
M'Callien, Wm. J., B.Sc. Baxter Demr.
4 other Demrs.

German
Smith, H., M.A. St. And., Ph D. Marburg William Jacks Prof.
Clark, James M., M.A., Ph.D. Lectr.
Murray, Lilias F., M.A. Asst.

Hebrew and Semitic Langs.
Stevenson, W. B., D.D., D.Litt. Edin. Prof.
Harris, E. J., B.D. Asst.

History, v. also Div., Law, Pol. Econ.
Medley, D. J., M.A. Ox. Prof.
Browning, A., M.A. Lectr.
Miller, S. N., M.A. (H. and Antiq., Roman) Lectr.
Rait, R. S., C.B.E., M.A. Ox., LL.D. (H. and Lit., Scot.) Prof.
Douglas, D. C., M.A. (Mediæval H.) Lectr.
Lees, R. M., M.A. (British H.) Lectr.
Sayles, G. O., M.A. Lectr.
Lees, Greta C. Asst.

Humanity, v. Classics

Italian [Stevenson Prof.
Grillo, Cav. E., K.C.O.I., M.A., Litt.D. Flor., LL.D. Perugia
MacKinven, A. D., M.A. Asst.
MacGillivray, Eliz., M.A.

Law, v. *infra*

* At Queen Margaret College.

Logic and Rhetoric
Bowman, A. A., M.A. Prof.
Levett, Margaret J., M.A. Lectr.
Haydock, G. H, M.A., B.Litt. ,,
2 Assts.

Mathematics [Prof.
Gibson, G. A., LL.D. Edin., M.A.
M'Arthur, N., M.A., B.Sc. Lectr.
MacRobert, T. M., M.A., D.Sc Lectr.
M'Whan, J., M.A., Ph.D. Lectr.
Arthur, W., M.A. Lectr.
Rodger, Janet F., M.A. Lectr.
Robb, R. A., M.A., B.Sc. Asst.
Hyslop, J., M A., Ph.D. Asst.
Rankine, Jean C., M.A , B.Sc. Asst.

Medicine and Surgery, v. *infra*

Metallurgy, etc., v. p. 289

Mining [Dixon Prof.
Dron, R. W., M.A., A.M.I.C.E.
Adam, D., B.Sc. Lectr.
Thomson, G., B.Sc. Demr.

Naval Archit., including Marine Engin.
Hillhouse, P. A., D.Sc. John Elder Prof.
Evans, D. L., B.Sc. Lectr.

Philology, Comparative (Classical)
Pirie, J. W., M.A. Aberd. Lectr.

Philosophy, Moral, v. also Logic and Psychol.
Hetherington, H. J. W., M.A. Prof.
Phillips, I. W., M.A. Lectr.
Campbell, C. A., M.A. Lectr.
Mitchell, J. S., M.A., B.Sc. Asst.

Philosophy, Natural
Jones, E. Taylor, D.Sc.Lond. Prof.
Green, G., M.A., D.Sc. Lectr.
Cochrane, Charles, M.A., B.Sc. Lectr.
Allan, G. E., D.Sc. Birm. Arnott and Thomson Demr. in Expl. Physics and Lectr. in Electricity.
Houstoun, R. A., D.Sc., Ph.D. (Physical Optics) Lectr.
Gray, R. C., M.A., D.Sc. Carnegie Teaching Fellow.
Robertson, J., M.A., B.Sc. Asst.
Shearer, J. F., M.A., B.Sc. Asst.
Younger, A. J., M.A., B.Sc. Asst.

Physics, Applied
Gray, J. G., D.Sc. Cargill Prof.

Physiology
Paton, D. Noël, M D., B.Sc., LL.D. Edin., F.R.S. Reg. Prof.
Watson, A. M., M.A. (Histology) Lectr.
Wishart, G. M., B.Sc , M.B. Grieve Lectr.
Garry, R. C., M.B. Lectr. & Demr.

Physiolog. Chem.
Cathcart, E. P., C.B.E., M.D., D.Sc., F.R.S. Gardiner Prof.
Wilson, H. E. C., M.B. Asst.

Polit. Econ.
Scott, W. R., Litt.D. Dub., D.Phil., St. And. Prof.
Smith, C. F., B.A. (Econ. Hist.) Lectr.
Jack, D. T., M.A. Asst.

Political Philosophy
White, Alex. K., M.A. Lectr.

Psychology
..... Lectr.

Russian [Sir William Weir Lectr.
Brennan, H. G., M.A. Lond.

Social Economics
Cunnison, James, M.A. Lectr.

Spanish
Entwistle, W. J., M.A. Stevenson Prof.

Theology, v. Divinity

Zoology
Kerr, J. Graham, M.A. Camb., F.R.S. Reg. Prof.
Dunkerly, J. S., B.Sc. Lond., D.Sc. Lectr. (Protozoology).

Carter, G. S., B.A., Ph.D. Lectr.
Staig, R. A., M.A.
Carnegie Teaching Fellow.
Jepps, Margaret W., M.A. Asst.
Miller, Agnes E., M.A. Asst.
Chumley, James Research Fellow.
Parsons, C. W., B.A Asst.

Law

Gloag, W. M., K.C., B.A. Ox., LL.D. Edin. Reg. Prof.

Civil Law
Muirhead, J. S., LL.B. Lectr.

Const. Law and Hist.
Mungo, D. B., LL.B. Lectr.

Conveyancing [Prof.
M'Kechnie, W. S., LL.B., D.Phil.

Evidence and Procedure
Lamond, R., LL.B. Lectr.

Internat. Law, Public, and Internat. Private Law
Nicol, R. M., LL.B. Lectr.

Jurisprudence, Genl.
Mitchell, A. A., LL.B. Lectr.

Mercantile Law
Wright, T. G., LL.B. Prof.
Dickson, D. S., LL.B. Asst.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology [Gardiner Prof.
Browning, C. H., M.D., D.P.H.
Dunlop, E. M., M.B. Lectr.

Bio-Chemistry, v. Pathological

Dermatology
Nicol, J. W., M.B., C.M.
M'Call Anderson Mem. Lectr.
Smith, J. Ferguson, M.A., M.B. Lectr.

Ear and Throat and Nose, Diseases of, v. also Nose
Gray, A. A., M.D. (Ear) Lectr.
Harper, James, M.A., M.B. Lectr.

Electrical Diagnosis and Therapeutics [Lectr.
Riddell, J. R., F.R.F.P.S.G.
MacLean, A. B., M.D. Lectr.

Eye, Diseases of the
Ballantyne, A. J., M.D. Lectr.

Forensic Medicine [Reg. Prof.
Glaister, J., M.D., D.P.H.
Glaister, J., Jr., M.B. Asst.

Infancy and Childhood
Findlay, L., M.D., D.Sc.
Prof. of Med. Pediatrics.
Fleming, G. B., M.B.E., B.A., M.D. (Med. Diseases) Lectr.
Graham, Stanley, M.B. Asst.
MacLennan, A., M.B. (Surgery and Orthopædics) Lectr.
Tennent, Robert, M.B. Asst.

Insanity
Henderson, D. K., M.D. Lectr.
MacDonald, J. H, M.B., Ch.B. (Psych. Med.)
Mackintosh Lectr.

Materia Medica [Reg. Prof.
Stockman, R., M.D. Edin.
Campbell, David, M.A., B.Sc., M.B. Pollok Lectr.
M'Callum, G., M.B., Ch.B.
Weir Asst.
Scott, W. H., M.B. Asst.

Medicine [Muirhead Prof.
Hunter, W. K., M.D., D.Sc.
Cruickshank, J. N., M.D. Asst.
Smith, David, M.D. Asst.

Medicine, Clinical
Anderson, J. B. M., M.B. Lectr.
Jack, W. R., M.D., B.Sc. Lectr.
Henderson, J., M.D. Lectr.
Cowan, J. M., M.D., D.Sc. Lectr.

Medicine, Practice of [Reg. Prof.
Monro, T. K., M.A., M.D., C.M.
Allan, G. A., M.D. Asst.
Adams, Douglas K., M.A., B.Sc., M.D. Asst.
M'Cluskie, J. A. W., M.B., Ch.B. Asst.

Midwifery
Cameron, M., M.D. Reg. Prof.
Cameron, S. J., M.B. Asst.
M'Lellan, A. N., M.B., C.M. Asst.

Nose and Throat, Diseases of the, v. also Ear
Syme, W. S., M.D. Lectr.
Young, Gavin, M.B. Asst.

Obstetrics and Gynæcology
Kerr, J. M. M., M.D. Muirhead Prof.
Hendry, J., M.A., B.Sc., M.B. Asst.
Cameron, S. J., M.B. (Clin.) Lectr.
Shannon, David, M.B. (Clin.) Lectr.
M'Intyre, D., M.B. Asst.

Pathology
Muir, R., M.A., M.D. Edin., Sc.D., F.R.S. Prof.
Blacklock, J. W. S., M.B. Lectr.
Cappell, D. F., M.B. Asst.
Young, J. S., M.A., B.Sc., M.B. Asst.
Teacher, J. H., M.A., M.D. St. Mungo-Notman Prof.
St. Mungo-Notman Assts.:
Marshall, Alice J., M.B.
Wingate, Helen F., M.B., Ch.B.

Pathological Bio-Chemistry
Telfer, Stephen V., B.Sc., M.B. Lectr.

Pediatrics, v. Infancy

Pharmacy [Lectr.
Middleton, J. C., M.A., B.Sc., M.B.

Psychological M., v. Insanity

Public Health
Currie, J. R., M.D. Edin., D.P.H. Birm. Prof.
Wylie, J., M.A., M.B., B.Sc. (Pub. Health) Lectr.

Surgery [Reg. Prof.
Young, Archibald, B.Sc., M.B.
Hutton, A. J., M.B. Asst.
Learmonth, J. R., M.B. Asst.
Robertson, J. G. M'Gregor, M.B. Asst.
Paterson, Peter, M.B. St. Mungo Prof.
Burton, J. A. G., M.B., D.P.H. St. Mungo Asst.
Stevenson, G. H., M.B. Asst.

Surgery, Clinical
M'Gregor, A. N., M.D. Lectr.
Kay, T., M.B., C.M. Lectr.
Edington, G. H., M.D., D.Sc. Lectr.
Patrick, J., M.A., M.B. Lectr.
Macrae, Farquhar, M.B. Lectr.
Macewen, J. A. C., M.B. Lectr.
Young, Roy F., M.B. Lectr.
M'Intyre, Milne, M.B. Lectr.
Renton, J. M., M.B. Lectr.

Tuberculosis, Clinical
Crocket, J., M.D. Edin. Lectr.
..... Lectr.

Venereal Diseases
Watson, D., M.B., C.M. Lectr.

University Extension

Stevenson Lectr. for 1925–26 in Citizenship: Principal Ernest Barker, D.Litt., LL.D., King's College, London.

Joint Secy. for the Univ. to the Glasgow Univ. Extra-mural Education Committee: Peter Alexander, M.A. (Lectr. in English).

ASSOCIATED COLLEGES, in which University courses are provided at Glasgow

ROYAL TECHNICAL COLLEGE, v. p. 288.

WEST OF SCOTLAND AGRICULTURAL COLLEGE.

GENERAL INFORMATION (v. also p. 257)

Founded by a Papal Bull in 1451, after the model of Bologna, the Univ. was reconstituted by a Charter of King James VI. of Scotland in 1577. In 1864–70 the old college buildings and site were sold and new buildings were erected in a more suitable position on the crest of a hill (Gilmorehill) to the west of the city. Funds for this were obtained partly from the proceeds of the sale, partly from public subscription, and partly from a Parliamentary grant of £120,000. Queen Margaret College was acquired by gift in 1893 for the use of women students. The Carnegie Trust contributed £60,000 towards the cost of additional buildings which were completed in 1907, and a neighbouring estate was presented by the MacLellan family in 1917.

The LIBRARY, founded in the 15th century, contains 255,000 vols., including 300 books printed before A.D. 1500. Among its important collections are the Ewing, distinguished for the value and variety of its Bibles; the Hamilton, rich in philosophical works; and the Ferguson, containing rare books on the history of Chemistry. The Hunterian MUSEUM, founded in 1783, contains most valuable MSS. and early printed books and pictures and important collections of coins, anatomical preparations, zoological and mineral specimens, etc. Large new departments with spacious LABORATORIES have been erected for Engin., Bot., Nat. Philos., Chem., Physiol., Anat., Path., Mat. Med., Forensic Med., Pub. Health, and Zoology. There are BOTANICAL GARDENS and an OBSERVATORY. As Glasgow stands at the centre of the shipbuilding, engineering, mining, and industrial area of Scotland, it offers unique opportunities for technical training. Three large general HOSPLS. are available for clinics, besides special institutions (including Consumption Sanatoria).

FACULTIES. (1) Arts, (2) Science, (3) Medicine, (4) Law, (5) Divinity, (6) Engineering. Depts. of Applied Science—Engineering (Civ., Elec., Mech. Mining, Naval Archit.), Applied Chem., Agric., Public Health, Pharmacy. Deans: (1) Profs. Smith (German), (2) Patterson (Chem.), (3) Currie (Public Health, (4) Gloag (Scots Law), (5) Stevenson (Hebrew), (6) Cormack.

DEGREES, v. p. 259. Applications by Overseas students for remission of part of the class attendance for B.Sc. in branches other than Engineering will be considered sympathetically. *Diploma* in Education, 1 yr. course, for graduates (the first yr. of the Ed.B. course); D.P.H. (1 yr. course) for legally qualified med. practitioners. *Certificates* of Proficiency in Engineering Science and in Mining Engin., 3 yrs.' courses, of which first yr. may be taken in Roy. Tech. Coll.; no prelim. examn.

M.A. with special reference to Citizenship. The curriculum recommended for this is—1st yr., English and another language; 2nd yr., a Science and History; 3rd yr., Ethics, Individual and Social Life, and Political Economy.

The list of extra-academical teachers whose courses in certain subjects are recognized as qualifying *pro tanto* for graduation includes several resident outside the United Kingdom, namely in Cape Town (in Nat. Philos., Chem., Bot., Zool.), Grahamstown (Physics, Chem., Bot., Zool.), Johannesburg (Zool. and Chem.), and Stellenbosch (Bot., Chem., Physics).

For detailed information regarding POST-GRADUATE study and research in any Faculty application should be made to the Dean, v. also p. 261. A Post-graduate *Medical* Assocn. organizes demonstrations for Med. Practitioners; fee for series, Nov. to May, 3 gs.; programme obtainable from the Secy., P.-G. Med. Assocn., Dr. James Carslaw, 6 Woodside Crescent.

CLASS FEES, see p. 261. M.A. (Hons.), 60 gs.; LL.B., 40 gs.; B.L., 30 gs.; M.B., Ch.B., about £250 for 5 yrs. Combined M.A. and B.Sc., 112½ gs.

SCHOLARSHIPS FOR GRADUATES : about 76 of from £30 to £280 p.a., most of them open only to graduates of Glas. (For undergraduates there are 480, varying in value from £10 to £50 or more p.a., chiefly in the Faculty of Arts, in addition to Bursaries of from £5 to £25, awarded by the Provincial Committee for the training of teachers.) V. also p. 261.

Travelling for study or research is encouraged by : Bryce Mathematical Fellowship (£280 p.a. for 4 yrs.), Faulds Fellowship (£200), J. R. K. Law Scholarship (£100 p.a. for 2 yrs.) for Applied Science tenable at an approved *Overseas University* or other scientific institution in *Canada, U.S.A.*, or *France*.

RESIDENCE. Two Hostels for men students—the Maclay Hall and the MacBrayne Hall; and two for women—Queen Margaret Hall and the Robertson Hall. Lodgings or board with private families with use of 2 rooms, generally obtainable in neighbourhood of the Univ., for from 35s. to 50s. per week. A few students' hostels or settlements, of limited accommodation, where the charges are lower, are run by private committees or bodies of students and graduates.

A STUDENT WELFARE COMMITTEE has been formed for the purpose of raising funds for the provision of Hostels, increased Union accommodation, and the completion of the Athletic Ground. Grants have been received from the Univ. Grants Committee and the Carnegie Trust, and many donations have been received from private benefactors and other sources. In all the sum of about £85,000 has been raised.

UNIVERSITY EXTENSION. An Extra-mural Education Committee, equally representative of the Univ. and working-class organizations, is prepared to supply classes, short courses, and single lectures to groups of students in Glasgow and the West of Scotland, so far as its resources will permit ; a compendium of classes and lectures for the session is obtainable from H. E. R. Highton, 22 Lochleven Road, Langside, S.2. Fortnightly and occasional free public lectures by professors and others are delivered during the winter session.

PUBLICATIONS. *Calendar* (July) ; *Glasgow Univ. Magazine*, weekly during winter session ; *Examn. Papers*, Prelim. and Degree, 6d. per set ; *Annual Handbook* for matriculated students ; *Handbook* for Overseas students and graduates.

THE YEAR 1924–25

BENEFACTIONS. Carnegie Trust (in addition to annual grant, £60,000), £11,900 for Library ; L. MacBrayne, £3500 for three MacBrayne Hall Scholarships ; Miners' Welfare Fund, £1520 for equipment of Mining Dept. ; Family of late T. Coats of Fergusliе, gift of valuable coin cabinet ; A. Bryson, bequest for foundation of Bursary ; family of late Major H. S. Hutchison, £600 for foundation of a prize ; D. Johnstone Smith, C.A., £20,000 for foundation of chair of Accountancy.

NEW POST. Chair of Accountancy.

LEGISLATION. The degree of B.Sc. in Applied Chemistry has now been constituted an Honours Degree on the model of the B.Sc. in Engineering.

HONORARY DEGREES CONFERRED. *D.D.*—R. Bulloch Douglas, A. Macfarlane, Principal F. J. Paul, W. S. Provand, H. Y. Reyburn, Prof. H. Watt, James Young. *LL.D.*—Sir John Bland-Sutton, Em.-Prof. F. O. Bower, Rt. Hon. Sir J. Gilmour, A. D. Lindsay (Master of Balliol College, Oxford), D. MacGillivray, I. J. Paderewski, Rt. Hon. The Earl of Ronaldshay, J. A. Roxburgh, T. Warren.

APPOINTMENTS. H. J. W. Hetherington (Principal, University College, Exeter) to the Chair of Moral Philosophy; J. M. F. Drummond, M.A. (Director, Plant-breeding Station, Corstorphine), to be Regius Prof. of Botany; W. J. Entwistle, Lectr. at Manchester, to be Stevenson Prof. of Spanish; A. A. Bowman, Prof. at Princeton Univ., U.S.A., to be Prof. of Logic; W. R. Cunningham, Public Records Office, to be Librarian and Keeper of the Hunterian Books and MSS. RESIGNATIONS: A. Macbeath, Lectr., to be Prof. of Philosophy in Queen's Univ., Belfast; Prof. H. A. Wilson, to be Prof. of Natural Philosophy, Rice Institute, Houston, Texas. RETIREMENTS: Prof. Latta, J. R. Peddie, R. A. Duff. DEATHS: Emeritus Prof. Cleland, J. S. Smart, H. J. Watt.

STUDENTS. Full-time, preparing for first degree, 4086 (including women—1381); graduates, 144 (women—34); total, 4316 (w.—1417). Part-time students, 86 (w.—2). Occasional, 181 (w.—9). DEGREES OBTAINED: M.A., 352; Ph.D., 20; D.Litt., 2; Ed.B., 1; LL.B., 17; B.L., 16; M.D., 17; M.B., Ch.B., 285; B.D., 8; B.Sc., 275; D.Sc., 2.

THE ROYAL TECHNICAL COLLEGE, GLASGOW

[Affiliated to the University of Glasgow.]

Chairman of the Board of Governors—JAMES MACKENZIE, LL.D.

Director—H. F. STOCKDALE, LL.D.

Tutor and Librarian—W. G. BURRELL, M.A.

PROFESSORS, LECTURERS, ETC.

Architecture and Building

Hughes, T. H., A.R.C.A., A.R.I.B.A. Prof. and Dir. of Arch. Studies.
Gourlay, C., B.Sc., F.R.I.B.A. Prof.
Brown, T., A.I.Struct.E. Lectr.
Smith, Wm. J., A.R.I.B.A. ,,

Botany and Bacteriology

Ellis, D., D.Sc. Lond., Ph.D. Marb. Prof. (Bact.) & Lect. (Bot.).
Zamorska, Miss W. Asst. Lectr.
Leitch, J. M., B.Sc. Demr.

Chemistry, Technical

Gray, T., D.Sc., LL.D., Ph.D. Jena, F.I.C. Young Prof. and Dir. of the Sch. of Chem.
Cruickshanks, G. S., Ph.D. Leip., F.I.C. Lectr.
Buchanan, Walter J., A.R.T.C. Demr.
Heriot, T. H. P., F.I.C. Lectr. (Sugar Manuf.).

Chem., Inorg. and Analyt.

Caven, R. M., D.Sc. Lond., F.I.C. Prof.
Sutherland, Maggie M. J., D.Sc., F.I.C. Lectr.
Cranston, J. A., D.Sc., A.I.C. (Physical Chem.) Lectr.
Duncan, J. G., F.I.C., A.R.T.C. Lectr.
Gordon, P. F., Ph.D., A.I.C. Lectr.
Pickering, E. C., Ph.D., B.Sc. Lond., A.I.C. Lectr.

Demrs. :
Crawford, A. B., Ph.D., B.Sc., A.R.T.C., A.I.C.
Burns, R., Ph.D., A.R.T.C., A.I.C.
Campbell, J. R., B Sc., A.R.T.C.
Baird, W., B.Sc., A.R.T C., A.I.C.

Chemistry, Organic
Wilson, F. J., D.Sc. Edin., Ph.D. Leip., F.I.C. Prof.
Cumming, W. M., D.Sc., F.I.C. Lectr.
Hopper, I. V., Ph.D., B.Sc. Lond., A.R.C.S.I., F.I.C. Lectr.

Dyeing, Bleaching, etc.
Steven, A. B., B.Sc. Lond., F.I.C. Lectr.

Engineering, Civil
Moncur, G., B.Sc. Edin., M.I.C.E., M.Amer.S.C.E. Prof.
Hunter, W., B.Sc. Lond., A.M.I.C.E., A.R.T.C. Lectr.
Thomson, G., M.A. Edin., M.I.C.E. (San. Eng.) Lectr.

Engineering, Electrical
Smith, S. Parker, D.Sc. Durh., M.I.E.E., A.M.I.C.E. Prof.
MacKellar, D. J., B.Sc., A.R.T.C., A.M.I.E.E. Lectr.
Meade, F. E., A.M.I.E.E. Lectr.

Asst. Lectrs. and Demrs. :
Farrell, J. F. E., B.Sc., A.M.I.Mech.E., A.M.I.E.E.
Shearer, G., B.Sc.
Macwhirter, R., B.Sc.
Say, M. G., Ph.D., M.Sc. Lond.

Engineering, Mechanical
Mellanby, A. L., D.Sc. Durh., M.Sc. McG., M.I.Mech.E. Prof.
Kerr, Wm., Ph.D., A.R.T.C. Assoc. Prof.
Sinclair, J. H., M.Sc. Vict., B.Eng. Liv. Lectr.
Smith, J., B.Sc., A.M.I.Mech.E. Lectr.
Caldwell, P. S., A.R.T.C., A.M.I.Mech.E. Lectr.
Ramsay, J., B.Sc. Lond., A.M.I.C.E., A M.I.Mech.E. Lectr.

Asst. Lectrs. and Demrs. :
Ferguson, W., B.Sc. Lond.
Grassie, J. C., B.Sc.
Milnes, W. A.
Sneeden, O., B.Sc.
Garrick, J. A., B.Sc.
Biggam, J., B.Sc.
Gnodde, E. P. D., B.Sc.
Russell, R., B.Sc.
Scott, Alex. W., B.Sc., A.R T.C.
M'Broom, H. L., B Sc., A.R.T.C.

Engineering, Mining
Burns, D., M.I.Min.E. Prof.
Stevenson, J., B.Sc. Lectr.
Miller, Wm., B.Sc. Asst. Lectr.
Gray, Wm. Demr.

Geology, Economic
Edwards, E. J., M.Sc. Manc. and Leeds Lectr.

Mathematics
Miller, J., M.A., D.Sc. Prof.
Paul, J., M.A., B.Sc. Lectr.
Geddes, S., M.A., B.Sc. Lectr.

Metallurgy
Andrew, J. H., D.Sc. Manc. Prof.
Higgins, R., B.Sc., A.R.T.C. Lectr.

Demrs. :
Fisher, M. S., B.Sc., A.R.T.C.
Robertson, J. M., B.Sc., A.R.T.C.
Macdougall, A. J.

Metallurgical Chemistry
Hay, R., B.Sc., A.I.C. Lectr.

Natural Philosophy
Muir, J., D.Sc., M.A. Camb. Freeland Prof.
M'Quistan, D. B., M.A , B.Sc. Assoc. Prof.
Rankin, J. S., B.Sc., A.R.T.C. Lectr.

Asst. Lectrs. and Demrs. :
M'Kerracher, D., B.Sc., A.R.T.C.

Somerville, J. B., B.Sc.
Anderson, R. Q., B.Sc., A.R.T.C., A.I.C.
Binnie, D., B.Sc.

Naval Architecture
Gray, W. M., B.Sc., M.I.N.A. Lectr.

Pharmacy and Mat. Med.
Todd, J. P., Ph.C. Lectr.
1 Asst.

Sugar Manufacture, v. Chem.

Textile Manufacture
Watson, W. Lectr.
2 Asst. Lectrs.

GENERAL INFORMATION

Anderson's College, founded in 1796, the College of Science and Arts (1823, the first "Mechanics' Institution"), and the Atkinson Institution (1861) were amalgamated in 1886 under the title of the Glasgow and West of Scotland Technical College, which was changed in Feb. 1912 to the Royal Technical College. The College was affiliated to the Univ. of Glasgow in March 1913.

The College building, comprising over 7 acres of floor space, cost, with equipment, £400,000. Qualifying courses are provided in the subjects named above for Degrees of the Univ. in Applied Science and for the Diploma of the College. Courses in the following qualify for the Diploma only: Building, Naval Architecture, Textile Manufacture. There are also Departments of Navign. and Bakery, as well as numerous evening classes in other subjects, mainly technological. The courses for the Diploma cover 3 (in Chem. and Metall., 4) yrs.; for the Associateship in any of the Diploma subjects, attendance during 4 yrs. is required. The evening lecturers are not included in the above lists; some of their work is, however, of university and even post-graduate standard. Much research work, for the prosecution of which a development fund of over £70,000 has been raised, is carried on at the College. The library includes the Euing musical collection and the James Young collection of early alchemical, metallurgical, and chemical books.

The Glasgow School of Architecture is maintained by the College and the Glasgow School of Art working in co-operation through a Joint Committee under whose authority its Diplomas (5 yrs' course) are issued.

FEES for tuition: diploma, 25 gs. p.a.; degree, 90 gs. for course.

THE YEAR 1924–25

BENEFACTIONS. £50,000 from anonymous donor for provision of endowment. Renewal for 3 years of annual grant of £1000 by Bellahouston Trustees. Miss Rebecca Edgar Bequest, £500. Additional grant from estate of late J. Clason Harvie, £424. "Anonymous donors" (per Messrs. Wright, Johnston & Mackenzie), £400. Provision and endowment of a medal and prize in Technical Chemistry in memory of the late Sir George Beilby (by subscription). A special grant of £1000 by the Univ. Grants Committee for improvement of Library. Gift of over 300 volumes on Chemistry by Lady Beilby from the Library of the late Sir George Beilby.

NEW BUILDINGS AND EQUIPMENT. Additional laboratory for Heat Treatment of Steels provided with four electric resistance furnaces, pyrometers, quenching tanks, etc. Extension and adaptation of equipment of School of Sugar Manufacture to meet requirements of Beet Sugar Industry. Provision and equipment of a gymnasium for students' use.

NEW POSTS. Prof. of Bacteriology, Associate-Prof. of Nat. Philos.

RESIGNATION. W. Blacklock, on appointment as Head of the Engineering Dept. of the Swindon Technical College.

A RESEARCH JOURNAL was instituted. The first number (140 pages, imperial octavo), containing 11 original papers in Chemistry, Metallurgy, Engineering, and Bacteriology, was published early in the year.

UNIVERSITY EXTENSION WORK (extra-mural study): 2650 part-time students of 21 years of age or over in organized classes, and, in addition, 477 tickets were issued for the course on Astronomy of the extension lectures type.

STUDENTS. Full-time, preparing for first degree or diploma, 363, including 22 women; graduates, 35. Part-time, undergraduate, 478 (women —46); graduate, 12. Occasional, 2165 (w.—31), taking courses not of a university standard, 1656 (w.—164). DEGREES OBTAINED: Ph.D., 6; B.Sc. in Applied Sc., 95; B.Sc. Lond., 4.

UNIVERSITY OF ST. ANDREWS

CHANCELLOR AND PRESIDENT OF THE GENERAL COUNCIL—The Rt. Hon. EARL HAIG OF BEMERSYDE, O.M., K.T., G.C.B., etc.

VICE-CHANCELLOR AND PRINCIPAL OF THE UNIVERSITY AND OF THE UNITED COLLEGE—Sir JAMES COLQUHOUN IRVINE, C.B.E., Ph.D., D.Sc., LL.D. Glas., F.R.S.

RECTOR AND PRESIDENT OF THE UNIVERSITY COURT—FRIDTJOF NANSEN, G.C.V.O., D Sc., D C.L., Ph.D.

SECRETARY AND REGISTRAR—ANDREW BENNETT.

LIBRARIAN—GEORGE H. BUSHNELL.

PRINCIPAL OF ST. MARY'S COLLEGE—Very Rev. G. GALLOWAY, M A, D.Phil., D.D.

PRINCIPAL OF UNIVERSITY COLLEGE, DUNDEE—J. Y. MACKAY, M.D., LL.D.

ADVISERS OF STUDENTS AT ST. ANDREWS: IN ARTS—Prof. WEBSTER; IN SCIENCE—Prof. HERRING; IN MEDICINE—Prof. WATERSTON.
AT DUNDEE: IN ARTS AND SCIENCE—Prof STEGGALL; IN MEDICINE—Prof. CHARTERIS.

UNIVERSITY COURT

PRESIDENT—THE RECTOR.
THE PRINCIPAL, *ex officio.*
THE PRINCIPALS OF ST. MARY'S COLLEGE and UNIVERSITY COLLEGE, DUNDEE, *ex officio.*
THE PROVOST OF ST. ANDREWS and THE LORD PROVOST OF DUNDEE, *ex officio.*
JAMES YOUNGER, LL.D.
WILLIAM LOW, O.B.E., LL.D.
A. MACGILLIVRAY, C.M., M.D., D.Sc.
J. M. DAWSON, M.A.
G. LAWSON, M.A.
E. E. MORRISON, M.A., LL.D.
Prof. WEBSTER.
Prof. HERRING.
Prof. GEMMILL.
SECY.—ANDREW BENNETT.

PROFESSORS, LECTURERS, ETC.

Anatomy

Waterston, D., M.A., M.D., C.M. Edin. Bute Prof.
Dow, D. R., M.B., Ch.B., M.D., D.P.H. Prof.*
Kirkpatrick, H. J. Rodway, M.B., Ch.B., D P.H Lectr. & Asst. (Regional A.).
Taylor, John, M.D., Ch.M. Lectr. (Regional A.) & Asst.*

* At Dundee.

Skae, F. M. T., M.D., C.M. Asst.*
Ferguson, J., M.B., Ch.B. Asst.*

Archæology, v. History

Biology, v. Nat. Hist.

Botany
..... Prof.*
Robertson, R. A., M.A., B.Sc. Reader.
West, G. Lectr.*
Kean, C. Isobel, B.Sc. Asst.

Chemistry
Read, J., M.A. Camb., B.Sc. Lond., Ph.D. Zür. Prof.
Steele, Ettie S., M.A., B.Sc., Ph.D. Lectr. & Asst.
M'Kenzie, Alex., M.A., D.Sc., Ph.D. Berl., F.R.S. Prof.*
Walker, Nellie, B.Sc., M.A., Ph.D. Lectr. & Asst.*
MacOwan, G., M.A., B.Sc., Ph.D. Lectr.
Howell, O. R., B.Sc., Ph.D. Lectr. & Asst.*
Kerr. C. A., B.Sc. Asst.*
Robertson, G. J., M.A., B.Sc., Ph.D. Asst.

Classics
Burnet, J., M.A. Ox., LL.D. Edin., Ph.D., F.B.A. (Greek) Prof.
Lorimer, W. L., M.A. (Greek) Lectr. & Asst.
Dall, Mrs. A., M.A., Ph.D. Asst.
Lindsay, W. M., M.A. Ox., LL.D., Litt.D., Ph.D., F.B.A. (Humanity) Prof.
Craig, J. D., M.A. (Latin) Lectr. & Asst.
Mills, T. R., M.A. (Latin) Lectr.*

Divinity
Galloway, G., M.A., D.Phil., D.D. Edin. Primarius Prof.
Duncan, G. S., O.B.E., M.A., B.D., B.A. (Bibl. Crit.) Prof.
Baxter, H. J., M.A., B.D. (Ch. Hist.) Prof.
..... Gifford Lectr.

Education [Bell Prof.
M'Clelland, W. W., M.A., B.Sc., B.Ed. (Dir. of Studies at the Provincial Training College)

Engineering, Civ. and Mech., and Drawing
Fulton, A. R., D.Sc. Prof.*
Walker, W. J., B.Sc., Ph.D. Lectr. & Asst.*
Steel, G. S., B.Sc. Lectr. & Asst.*

Engineering, Electrical
Mackay, W. Morton, B.Sc. Lectr. & Asst.*

English Lang. and Lit.
Webster, A. Blyth, M.A. Berry Prof. of E. Lit.
Peterson, W. G., M.A. Lectr. & Asst.
Soutar, G., M.A., D.Litt. Lectr.*
Wright, Miss S. L. P. Asst.
Graham, Margaret, M.A. Glas. Asst.*

French Lang. and Lit. and Rom. Philol.
Lewis, C. B., B.A., L. ès L., Ph.D. Lectr.†
Roe, F. C., M.A., L. ès L., D. ès Lett. Lectr.†
Aubry, Alice, L. ès L. Asst.

Geology †
Innes, D. E. I., M.A. Lectr.
Cumming, G. A., B.Sc. Asst.
Walker, F., B.A., Ph.D. Asst.
Harris, J. W., B.Sc. Asst.

German and Teut. Philol.
Smith, Muriel, M.A. Lectr.
Hayens, K., M.A., D.Litt. Lectr.*

Hebrew and Oriental Langs.
Kay, D. M., D.S.O., D.D. Edin., M.A., B.Sc. Prof.
..... Asst.

History, Mediæval [Lectr.†
Williams, J. W., M.A., B.Litt. Ox.

History, Modern
Mackie, J. D., M.A. Lectr.
Burn, W. L., B.A. Asst.

* At Dundee. † At St. Andrews and Dundee.

Law, Scots [Lectr.*
Allison, J., C.B.E., M.A., LL.B.

Logic and Metaphysics
Stout, G. F., M.A. Camb., LL.D., F.B.A. Prof.

Logic and Psychology
Wright, J. N. Lectr.*
Mace, C. A. Lectr. & Asst.

Mathematics and Applied Maths.
Turnbull, H. W., M.A. Reg. Prof.
Steggall, J. E. A., M.A. Camb. Prof.*
Saddler, W., B.A. Camb., M.A. Lectr. & Asst.
Butchart, R. K., B.Sc., Ph.D. Lectr. & Asst.*
Pritchard, H. L., M.A. Asst.
Simpson, Mary C., M.A. Asst.*

Medicine and Surgery, v. *infra*

Natural History
Thompson, D'A. W., C.B., M.A., D.Litt., F.R.S. Prof.
Gemmill, J. F., M.A., D.Sc., M.D. Glas. Prof.*
Sutherland, Christina, B.Sc. Asst.*
Adamson, A. M., M.A., B.Sc. Asst.

Philosophy, Moral, v. also Logic
Morrison, D., M.A. Prof.
..... Asst.

Philosophy, Natural
Allen, H. Stanley, M.A., D.Sc. Prof.
Bagot, J. C. Lectr. & Asst.
Robson, W. G., A.R.C.S. Lectr.
Jack, D., M.A., B.Sc. Asst.
Forrest, J., M.A., B.Sc. Lectr. & Asst.*
Malcolm, Ada, B.Sc. Asst.*
Smith, Winifred J., B.Sc. Asst.*

Physics [Harris Prof.*
Peddie, W., D.Sc. Edin.

Physiology [Chandos Prof.
Herring, P. T., M.D. Edin.
Hynd, Alex., M.A., D.Sc. Lectr. & Asst.
Reid, E. W., B.A., M.B., Sc.D. Camb., F.R.S. Prof.*
Stiven, D., B.Sc. Asst.*

Political Economy
Morrison, C., M.A., LL.B. Lectr.

Psychology, v. Logic

Pub. Health, v. Med.—Fevers

Theology, v. Divinity

Zoology, v. Nat. Hist.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics
Mills, Arthur, M.D. Lectr.*
3 Instrs.

Bacteriology
Tulloch, W. J., O.B.E., M.D., D.P.H. Prof.*
Thomson, Wm., M.B., Ch.B. Asst.*
..... Research Asst.*

Diseases of Children
Rogers, J. S. Y., M.B., C.M. Lectr.*
Price, Prof. Ll. T. Lectr.*

Diseases, Mental
Mackenzie, W. T., M.D. Lectr.*

Diseases, Throat, Nose, and Ear
Mathers, R. P., M.D. Lectr.*
Gibson, M. J., F.R.C.S.E. Clin. Tutor.*

Diseases, Skin
Milne, F. M., M.A., B.Sc., M.B., Ch.B. Lectr.*

Fevers and Pub. Health
Burgess, W. L., M.B., Ch.B., M.D., D.P.H., D.T.M. and H. Lectr.*
M'Kie, W., M.B., Ch.B., D.P.H. Asst.* (Fevers).
Dickson, Margaret S., M.B., Ch.B. Asst.* (Public Health).

* At Dundee.

Forensic Medicine
Lennox, D., M.D. Lectr.*

Materia Medica
Charteris, F. J., M.D. Glas. Prof.*
Buchanan, W. E. A., M.B., Ch.B. Asst.*

Medicine
Patrick, Adam, M.D. Glas. Prof.*
Morgan, J. M'I., M.B., Ch.B. Asst.*

Medicine, Clinical *
Lectrs. :
Profs. Charteris and Patrick.
Foggie, W. E., D.S.O., M.A , M.D.
Kerr, C., O.B.E., M.B., C.M.

Midwifery
Kynoch, J. A. C., M.B., C.M. Edin. Prof.*
Fairlie, Margaret, M.B., Ch.B. Asst. & Tutor.*

Ophthalmology
M'Gillivray, A., C.M., M.D. Aberd., D.Sc. Reader.*
M'Gillivray, Allister M., M.B., Ch.B. Clin. Tutor & Asst.*

Pathology
Sutherland, L. R., M.B., C.M. Glas. Prof.*
Tudhope, G. R., M.B., Ch.B., D.P.H. Asst. & Lectr.*

Pathology, Clinical
Milne, F. M., M.A., B.Sc., M.B., Ch.B. Lectr.*

Radiology and Elec. Therap.
Pirie, G. A., M.A., M.D. Instr.*
Milln, G. H. S., M.B., Ch.B. Instr.*

Surgery
Price, Ll. T., M.B., C.M. Prof.*
Brown, F. R., M.B., Ch.B., F.R.C.S. Edin. (Tutor in Clinical S.) Asst.*

Surgery, Clinical
Anderson, J., M.B., Ch.B., F.R.C.S. Edin. Lectr.*
Alexander, R. C., M.A., M.B., F.R.C.S. Edin. Lectr.*
Taylor, John, M.D., Ch.M. Tutor.*

Tuberculosis [Instr.*
Hunter, J. H., M.B., Ch.B., D.P.H.

Vaccination [Lectr.*
Scott, Douglas, M B., Ch.B.

Venereal Diseases
Averill, C., M.B., Ch.B. Instr.*

* At Dundee.

GENERAL INFORMATION (v. also p. 257)

The University was founded in 1411. In 1747 St. Salvator's (1450) and St. Leonard's (1512) Colleges were united under the name "United College of St. Salvator and St. Leonard." St. Mary's College (1537) has, since 1579, been restricted to the teaching of Theology. University College, Dundee (1880), was affiliated to and made to form part of the University in 1897.

LIBRARY: 217,000 printed vols. (some of 15th and 16th centuries). MSS. include fine Persian specimens and large folio Antiphonarium. College Library at Dundee. MUSEUMS at St. Andrews—Anat., Anthrop., Ethnol., Geol., Mineral., Nat. Hist.; at Dundee—Geol., Med., Nat. Hist. LABORATORIES at St. Andrews—in all above depts. except Med., also Chem. (with special Research lab.), Marine, Physics, Physiol., Bot. Garden. At Dundee—Anat., Bact., Chem., Embryol., Engin. (Elec., Hydraulic, Mech.), Mat. Med., Maths., Nat. Hist., Physics, Physiol.

FACULTIES. Divinity, Arts, Science, Medicine. Deans: Principal Galloway, Prof. Blyth Webster (English), Prof. Herring (Physiology), Prof. Charteris (Materia Med.).

DEGREES, ETC., v. p. 259. Courses for graduation in Arts and Science are given both in the United Coll., St. And., and in Univ. Coll., Dundee, some being given in both places, some—Greek, Hebrew, Hist., Moral Philos., Pol. Econ.—only in St. And., some—Engineering—only in Dundee; Medical, after the first two yrs., and Dental solely in Dundee, where facilities for clinical instruction are available. Here also is provided a course in Scots Law. Associated with the Univ. is the Dundee School of Social Study and Training.

The M.A. Course includes a General and a Special examn. The former, which must be completed before proceeding to the Special, embraces at least 5 subjects, of which Latin or Greek must be one, another must be either Maths. or Philos., at least two must be Linguistic, and at least one Scientific. *Foreign students* may take Arabic or Hebrew in lieu of Latin or Greek. In the Special examn. two cognate subjects must be taken, the whole examn. being passed at one time.

The B.Sc. Ordinary degree in Pure Science involves a 3 yrs.' course, embracing at least 4 subjects with a 1st examn. (4 subjects) and a 2nd (2 subjects); the Honours degree involves a 4 yrs.' course (the last year being devoted exclusively to advanced study in the Hons. subject) with 2 examns.—a 1st n 4 subjects and an Honours in one.

Diplomas: Education, for graduates who complete the first year of the Ed.B. course; D.P.H., 12 months; L.D.S., 4 yrs.; L.L.A. (for women), attendance on courses not required, standard about the same as that of the ordinary M.A.; Social Study, 2 yrs. after obtaining M.A. or B.Sc. *Certificate* in Social Study for non-graduates over 21 with good general educn., 2 yrs.

FEES for Tuition. B.Sc., £80; B.Sc. (Engineering), 90 gs.; B.Sc. Hons., 90 gs.; M.B., Ch.B., £182. Combined Courses: M.A. and B.Sc., 112½ gs.; M.A. and M.B., Ch.B., £208; M.A., B.Sc. and M.B., Ch.B., £236; B.Sc. and M.B., Ch.B., £220. The above do not include fees for hospl. ticket or cases of labour, or laboratory fees for use of apparatus, etc. Maximum fee for Research students, 5 gs. a term. Degree fees for M.D. or Ch.M., 20 gs.; D.Litt. or D.Sc., 15 gs.; Ph.D., L.D.S., or D.P.H., 10 gs.; B.Phil. or B.Litt., 6 gs. Dipl. or Certif. in Social Study, 4 gs.; v. also p. 261.

RESIDENCE. University Hall for Women (Warden) at St. Andrews, £66 and upwards p.a., exclusive of tuition fees. Hostel for women students, Dundee (Warden), £40 p.a. Chattan House for men (Warden) at St. Andrews, £56 p.a. and upwards, exclusive of tuition fees.

SCHOLARSHIPS FOR GRADUATES: 14, annual value about £1711; v. also p. 261. Scholarships tenable in other countries: Guthrie (£135 p.a. for 4 yrs.), tenable at Oxford or Cambridge or (with special permission) at a foreign Univ.; Ramsay (£150 p.a. for 2 yrs.), Bruce (£150 p.a. for 2 yrs.), and Berry (£160 p.a. for 2 yrs.) may, with permission of United College, be tenable in another Univ. or Institution.

PUBLICATIONS. *Calendar* (June), 3s. 6d.; U. Coll., Dundee, *Calendar*, 6d.; Students' Repve. Council's *College Echoes* (St. And.) and *The College* (Dundee).

THE YEAR 1924–25

BENEFACTIONS. Gift of £10,000 by Dr. James and Mrs. Younger in supplement of former gift for Graduation Hall. Bequest of Philosophical Library by late Baron von Hugel.

NEW BUILDINGS, ETC. Chemistry and Physics Laboratories, St. Andrews, continued; Alteration and repair of Women Students' Union; Repair and

refurnishing of Students' Union, Dundee; Reorganization of Univ. Library on the Library of Congress system; Institution of Experimental Psychology Laboratory.

NEW DEPARTMENTS AND POSTS. Additional Assistantship in Geology, Lectureship in Music, Assistantships in Public Health and Fevers (separate), Chair of Education (temporarily in abeyance) filled, and Chair combined with Directorship of Studies, Training College, Dundee, appointment of six Readers and Lecturers as Members of Senatus.

RESIGNATIONS AND RETIREMENTS. Prof. J. Y. Mackay, retired; F. J. Tanquerey, Lectr. in French, appointed Prof. at Birkbeck College, London, succeeded by F. C. Roe from Birmingham; S. R. Kirk, Asst., Geology; P. H. Box, Asst., History; and J. Williamson, Asst., Maths., appointed to Commonwealth Fellowships; Miss A. E. M. M. Dallas, Asst., Nat. Phil., St. Andrews, retired; Dr. Eliz. MacVicar, Asst., Public Health and Fevers, retired.

DEGREES CONFERRED. M.A., 67 (including women—49); B.Sc., 44 (women—17); B.D., 1; M.B., Ch.B., 61 (w.—20); M.D., 7 (w.—2); B.Litt., Ph.D., 12 (w.—3).

STUDENTS. Full-time, preparing for first degree, 537 (women—262); graduate, 53 (w.—12); diploma (dentistry) students, 18; total full-time, 608 (w.—274). Part-time, 5 (w.—2). Occasional, 40 (w.—5). Taking courses not of university standing, 6 (w.—4).

UNIV. EXTENSION. Programme of evening classes arranged for 1926 for railway managing and clerical staffs in Railway Geography, etc.

THE QUEEN'S UNIVERSITY OF BELFAST

VISITOR—H.M. THE KING.

CHANCELLOR—The Most Honourable THE MARQUESS OF LONDONDERRY, K.G., P.C., M.V.O., LL.D.

PRO-CHANCELLORS—Sir HIRAM S. WILKINSON, LL.D., D.L.; Sir WM. WHITLA, M.A., M.D., LL.D., D.Sc.; Rt. Hon. HUGH O'NEILL, M.P., LL.D.

PRESIDENT AND VICE-CHANCELLOR—R. W. LIVINGSTONE, M.A. Ox., D.Lit.

REPRESENTATIVE IN THE PARLIAMENT OF THE UNITED KINGDOM —Col. T. SINCLAIR, C.B., M.D., F.R.C.S. Eng.; IN PARLIAMENT OF NORTHERN IRELAND—Sir JOHN CAMPBELL, M.A., M.D., LL.D., F.R.C.S. Eng.; J. H. ROBB, B.A., K.C.; Prof. R. J. JOHNSTONE, B.A., M.B., F.R.C.S. Eng.; H. S. MORRISON, M.D.

REGISTRAR—Col. T. SINCLAIR, C.B., M.D., M.Ch., F.R.C.S. Eng.

LIBRARIAN—Prof. G. GREGORY SMITH, M.A., LL.D.

SECRETARY—.....

SECRETARY OF ACADEMIC COUNCIL—Prof. R. M. HENRY, M.A.

BURSAR—JOHN GREEN, C.A.

CHAIRMAN OF CONVOCATION—Sir JOHN CAMPBELL, M.A., LL.D., M.D., F.R.C.S. Eng.

PROFESSORS, LECTURERS, ETC.

Agricultural Botany and Plant Diseases

Mercer, S. P., B.Sc. Prof.
Clouston, D., B.Sc. Jr. Lectr.
Muskett, A. E., B.Sc., A.R.C.Sc. Jr. Lectr.
Houston, J., B.Sc. Asst.
Seaton, I. W., B.Sc. Lectr. (Plant Genetics).

Agricultural Chemistry [Prof.
Robertson, G. S., D.Sc. Durh.
Dickinson, F., B.Sc. Jr. Lectr.
Baskett, R. C., B.Sc. Jr. Lectr.

Agricultural Zoology [Lectr.
Rhynehart, J. C., F.R.C.S.I.

Agriculture: Crop and Animal Husbandry

Rae, Robert Lectr.

Anatomy

Walmsley, T., M.D. Glas. Prof.
Hunter, R. H., M.D. Lectr.
Malcolm, H. P., M.B., Ch.B. Lectr.
Stephenson, G. V., M.B. Asst.
Lavery, M. B., M.B. Asst.

Anatomy, Applied, Operative Surgery and

Crymble, P. T., M.B., F.R.C.S. Eng. Lectr.

Bio-Chemistry
Milroy, J. A., M.A., M.D. Edin. "J. C. White" Prof.
Beattie, F. J. R., B.Sc. Demr.

Botany
Small, J., D.Sc. Lond. Prof.
Lynn, Mary J., M.Sc. Jr. Lectr.
Clapham, Mabel, B.Sc. Demr.

Celtic
O'Brien, M., Ph.D., M.A. Lectr.

Chemistry
Stewart, A. W., D.Sc. Glas. Prof.
Crowe, W. H., M.Sc. Sr. Asst.
McVicker, W. H , M.Sc. Sr. Asst.
Ellison, J. E., M.Sc. Jr. Asst.

Chemistry, Organic
Graham, Hugh, D.Sc. Lectr.

Classics
McElderry, R. K., M.A. Prof. (Greek).
Henry, R. M., M.A. (Latin) Prof.
Tate, J., M.A. Dub. (Latin) Asst.

Commerce
Meredith, H. O., O.B.E., M.A. Camb., M.Com. Manc. Dean of the Faculty, Lectr. in C. and Geog., and Prof. of Economics.

Recognized Teachers in the Munic. Coll. of Tech. :
Dodd, F. T. Lloyd, M.A., D.Sc. Prof.
Boyd, D. T., B.Com.Sc. (Accounting).
M'Cracken, W. J., B.A., B.L. (Coml. Law).
Dunne, T. (Econ., Geog., and Business Methods).
Fleet, H. (French).
Sueyras, M. (Spanish).
Carson, J. H. A., M.A. (Maths.).

Dental Science, v. *infra*

Economics, v. Comm., Hist.

Education
M'Callister, W. J., M.A., B.Sc. Prof.
Ellison, W., B.A. Master of Method.
Simms, Florence, M.A. Asst.
Dorward, Jas., B.Sc. Asst.
M'Caughey, E. L., B.A. Asst.
Brown, E. M., M.A. Asst.
O'Neill, E. E., B.A. Asst.

Engineering, Civil
Hummel, F. H., M.Sc. Birm., A.M.I.C.E. Prof.
Finnan, E., M.Sc. Jr. Lectr.
O'Connor, T. J., B.E. Asst.

English Language
Belfour, A. O., M.A. Ox. Reader.

English Literature
Smith, G. Gregory, M.A. Ox. and Edin., LL.D. Edin. Prof.
Carver, P. E., B.A. Asst.

French and Romance Philology
Savory, D. L., M.A. Ox. Prof.
Stephens, Margaret, B.A Asst.
Danjean, Suzanne, L. ès L. Asst.

Geography, v. Com.

Geology
Charlesworth, J. K., D.Sc. Leeds, Ph.D. Bres. Prof.
Parkinson, D., B.Sc. Asst.

German
Williams, R. A., Ph.D. Leip., D.Litt. Dub. Prof.

History, Modern [Prof.
Todd, J. E., M.A. Ox. and Edin.
Hughes, E., M.A. Asst.

History, Economic, and Polit. Sc.
Lemberger, J., M.A. Ox. Lectr.

Law, English
Baxter, J. S., LL.D. Dub. (*Dean* of Faculty) Prof.

Law, Jurispr. and Roman
Strahan, J. A., M.A., LL.B. Prof.

Logic and Metaphysics
Macbeath, A., M.A. Glasgow. Prof.

Mathematics
Dixon, A. C, M.A., Sc.D. Camb. and Lond., F.R.S. Prof.
Price, A. T., B.Sc. Asst.

Music
Walker, L., B A., Mus.D. Lectr.

Philosophy, Moral, and History of Philos
Dorward, A. J., M.A. Camb. Lectr.

Philosophy, Scholastic [Lectr.
Ryan, A. H , B.A., D.D., Ph.D.

Physics
Morton, W. B., M.A. Camb. Prof.
Johnson, R. C., Ph.D., B.A., B.Sc. Lectr.
Wylie, J., B.A. Lectr.
Chambers, Florence M., M.Sc. Demr.
Beck, Louise, M.Sc. Hon. Demr.
" Musgrave " Demrs. :
Jenkins, H. G , B.Sc.
Beattie, Annie V., B.Sc.

Physiology
Milroy, T. H., M.D., B.Sc. Edin. Prof.
Loughridge, J. S., M.B. Sr. Demr.
Campbell, A. E., M.B. Demr.
Rankin, J. C., M.D. Hon. Demr.

Spanish
Llubera, I. G., D.Litt. Mad. Lectr.

Technology, v. *infra*

Veterinary Science
Rice, J. P., B.Sc. Lectr.

Zoology
Wilson, G., O.B.E., M.A., D.Sc. Edin., Ph.D. Freib., M.R.I.A. Prof.
Riddell, W., M.A. Jr. Lectr.

Medicine (for subjects of first 2 yrs.—Anat. etc., v. *supra*)

Bacteriology
Allison, V. D., M D.
" J. C. White " Lectr.

Gynæcology
Johnstone, R. J., B.A., M.B., F.R.C.S. Eng. Prof.
MacAfee, C. H. G., M.B. Asst.

Hygiene, v also Pub. Health
Wilson, W. J., B.A , M.D., D.Sc., D.P.H. Prof.
Blair, E. M., M.Sc. Asst.
Totton, J. H., B.A., B.Sc. Demr.

Materia Med. and Therapeutics
M'Ilwaine, J. E., M.D. Prof.
Allen, F. M , M.D. Demr.

Medicine
Thomson, W. W. D., M.D., B.Sc., D.P.H. Prof.
Lewis, J. T., M.D., B.Sc. Asst.
2 Clinical Lectrs.

Medical Jurisprudence
The Prof. of Pathology Lectr.
Houston, T., M.D., B.A. Lectr.

Midwifery and Infantile Diseases.
Lowry, C. G., M.D. Prof.
Eaton, A. H., M.B. Tutor.
Carson, W., M.B. Hon. Demr.
Lowry, H. C., M.B. Hon. Demr.
1 Clinical Lectr.

Ophthalm. and Otology [Lectr.
Craig, J. A., M.B., F.R.C.S. Eng.
2 Clinical Lectrs.

Pathology
Symmers, W. St. C., M.B. Prof.
Vint, J. W., M.B. Demr.

Pathology, Clinical
Houston, T., B.A., M.D. Demr.

Pharmacology
Mayrs, E. B. C., M.D. Lectr.

Pharmacy [Lectr.
Fielden, V. G. L., M.D., Ph.C.

Public Health [Lectr.
Bailie, H. W., L.R.C.P. and S. Edin., L.F.P.S. Glas., D.P.H.

Surgery, v. also Anat.
Fullerton, A., C.B., C.M.G., M.D., M.Ch., F.A.C.S. Prof.
Hall, H. P., M.B., M.Ch. Asst.
2 Clinical Lectrs.

Vaccination [Teacher.
Armstrong, S. R., O.B.E., M.B.

Dental Science

Hunter, W. M., L.D.S. Edin. (Metallurgy) Lectr.
Elwood, H., L.D.S. Edin. and Penn. (Mechanics) Lectr.
Swan, H. M., L.D.S., R.C.S. Eng. (Surgery) Lectr.
M'Keag, H. T. A., B.D.S., B.A. Dub. (Orthod.) Lectr.
Fielden, V. G. L., M.D., Ph C. (Mat. Med.) Lectr.

Technology (v. also Agr. and Engin.)

Extra-Mural Staff (Hon.), being Profs. and Lectrs. at the Munic. Coll. of Tech.

Architecture
Beaumont, I., A.R.C.A. Lond., F.R.S.A. Prof.

Building Construction
Hampshire, T. R. Lectr.

Chemical Technology
Wren, H., M.A., D.Sc., Ph.D. Prof.
Still, C. J., M.Sc., Ph.D., A.I.C. Lectr.
Hughes, Miss K. H., B.A., M.Sc. Lectr.

Electrical Engineering and Physics
Burns, P. L., B.Sc., A.M.I.E.E. Prof. (Elec. E.).
Jefcoat, C., A.R.C.Sc.I. Lectr.
M'Kenna, O., M.A., B.Sc. Lectr.
Yeates, J. F., B.Sc. Lectr.

Electro-Technics
..... Prof.

Mathematics
Earls, J., B.A. (Principal) Prof.
Murphy, J. J. F., B.Sc. Lond. Lectr.

Mechanical Engineering [Prof.
Smith, J. H., D.Sc., A.R.C.Sc.
Warnock, F. V., B.Sc., Ph.D., A.R.C.Sc. Lectr.
Fforde, W. J. (Design) Lectr.
Sandham, B., B.E. (Nav. Archit.) Lectr.

Textile Industries
Bradbury, F. Prof.

RECOGNIZED COLLEGES AND TEACHERS

MUNICIPAL COLLEGE OF TECHNOLOGY, BELFAST, v. *supra*—Commerce and Tech. The complete course for the B.Sc. in Engineering or in Textile Technology may be taken at this college.

GENERAL INFORMATION

Queen's College, incorporated in 1849, was dissolved in 1909 on the constitution of the Queen's University of Belfast.

LIBRARY, 99,000 vols. MUSEUMS: Class. Archæol., Nat. Hist., Medical, Materia Medica, Sanitary Science. LABORATORIES: Chemistry ("Donald Currie"), Engineering ("Harland"), Physiology ("Jaffé"), Pathology and Bacteriology ("Musgrave"), Physics, Anat., Bot., Geol., Pharm., Zool. HOSPITALS available for Clinics, 3 general, 10 special (Fever, Maternity, Women, Children, Ophth., Eye, Ear and Throat, Consumption, Lunacy, Skin).

FACULTIES. (1) Arts (including Music), (2) Science (including Civil Engin.),

(3) Law, (4) Medicine, (5) Commerce, (6) Applied Science and Technology, (7) Agriculture. Dept. of Dental Science. Deans of Faculties: Profs. (1) Todd (History), (2) Small (Botany), (3) Baxter, (4) Symmers (Path.), (5) Meredith (Economics), (6) Hummel (Engin.), (7) Robertson.

DEGREE COURSES. 3 yrs.—B.A., B.Sc., B.Sc. in Engin. or Textile Tech., LL.B., B.Com.Sc.; 4 yrs.—B. Agr., B.D.S.; 5 yrs. (of which 2 may be in other approved Univs. or Med. Schools)—M.B., Ch.B., B.A.O.; 1 yr.—LL B. course for graduates of this or another Univ.

The courses in Elec. and Mech. Engin. are taken in the Municipal College of Tech. 3 yrs.' day or 5 yrs.' evening classes in the M.C.T. qualify for B.Sc. in Tech. 3 yrs.' day or 5 yrs.' evening classes in the M.C.T. qualify for the B.Com.Sc. Evening classes in a subject do not qualify for the B.Sc. unless the candidate has concurrent day-time employment in some technical or commercial branch of the same subject.

Diplomas. Educn. (1 or 2 yrs.); Higher Dipl. in Educn. (for graduates).

HIGHER DEGREES. The M.A. may be taken by a B.A. 1 yr. after graduation (examn. or thesis or independent research). The (1) D.Lit. and (2) LL.D. are conferred on grads. of this Univ. distinguished in (1) letters, or in literary, philos., or hist. research, or (2) Law, or in legal or historical research; they may be obtained by thesis also. The M.Sc. is open to a B.Sc. of the Univ. and grads. of other Univs. holding a degree of similar rank after the lapse of not less than 1 yr. from graduation (thesis or independent research). The D.Sc. is open to grads. of this Univ. 3 yrs. after graduation in any faculty. It is conferred for research or scientific work in relation to Science pure or applied, or for distinction in Science, Engin., or other practical application of Science. The M.D., M.Ch., and M.A.O. are open to graduates in Medicine of 3 yrs.' (if also graduates in Arts or Science, 2 yrs.') standing by examn. or thesis. The M.Agr. may be conferred on a B.Agr. of the Univ. or a graduate admitted *ad eundem* after 2 yrs., for a thesis or independent research. As regards Ph.D. *see* p. 17.

FEES. Enrolment (annual), 3 gs. Class fees, annual (inclusive)—Arts, 11 gs.; Engineering, 21 gs.; B.Com.Sc., 11 gs.; Dipl. Educn. (2 yrs.), 12 gs.; M.B., B.Ch., 25 gs.; B.Sc. or B. Agric. 24 gs.

SCHOLARSHIPS, ETC., FOR GRADUATES of the Univ. Studentships of £50: 5 in Arts, which may be raised by £25 and continued for a 2nd yr.; 4 in Science. Special grants to Med. graduates for original research or clin. study. Mackay Wilson Travelling Med. Scholp., £100. Musgrave Studentships in Path., Physiol., Physics, Biol., and Chem., of £200 p.a. for research. Four other Studentships of the aggregate annual value of £330.

RESIDENCE. Women's Hostel. Board and residence per annum, about £52. Board and lodging obtainable in the town from about 25s. a week upwards.

There is a GRADUATES' SOCIETY which meets in London. Secy., Dr. W. H. M. McCullough, D.S.O., 152 Harley St., London.

RECOGNITION OF OTHER UNIVS. Students from other approved Univs. may apply for exemption from a year's attendance for first degree, attendance and examn. in some of the subjects for first degrees in Arts and Science, in consideration of equivalent courses and examns. elsewhere.

UNIVERSITY EXTENSION lectures by members of the Univ. Staff are given in Belfast and other towns.

PUBLICATIONS. *Calendar* (Jan.), 2s.; Students' mag., *Fravlio.*

THE YEAR 1924–2

NEW BUILDINGS. The building for the "J. C. White" department of Bio-chemistry was completed at a cost of £6000, and one for the dept. of Agriculture, to cost £45,000, was begun.

NEW REGULATIONS for degrees in Agriculture were made. The Senior staff was reorganized and a new class of Junior Lecturers was created, to which assistants and demonstrators may be promoted after 4 years' service.

RETIREMENT. F. W. O'Connell.

HONORARY DEGREES. *LL.D.*—Dr. H. Cabot, Rt. Hon. and Rev. T. Hamilton, Sir John Lavery, Dr. Franklin H. Martin, Dr. C. H. Mayo. *D.Sc.*—Profs. F. G. Donnan and E. W. McBride. OTHER DEGREES. D.Lit., 1; M.D., 10; Ph.D., 1; M.A., 4; M.Sc., 11; M.Ch., 1; B.A., 35; B.Sc., 56; LL.B., 8; M.B., 82; B.Com.Sc., 5.

STUDENTS in Arts, 422 (including 248 women); Science, 124 (women—67); Engin., 40; Agric., 4; Appl. Sc., 73; Law, 49 (w.—4); Commerce, 62 (w.—12); Med., 356 (w.—61); Dentistry, 38 (w.—6).

UNIVERSITY OF DUBLIN, TRINITY COLLEGE

CHANCELLOR—The Rt. Hon. the EARL OF IVEAGH, K.P., LL.D., F.R.S.

VICE-CHANCELLOR—The Rt. Hon. BARON GLENAVY, LL.D.

VISITORS OF TRINITY COLLEGE—THE CHANCELLOR (or VICE-CHANCELLOR); The Rt. Hon. T. F. MOLONY, LL.D.

PROVOST—The Rt. Hon. and Most Rev. J. H. BERNARD, D.D.

REPRESENTATIVES IN PARLIAMENT OF IRISH FREE STATE—E. H. ALTON, M.A.; Sir JAMES CRAIG, M.D.; W. E. THRIFT, M.A.

SENIOR FELLOWS OF THE COLLEGE

Cathcart, G. L., M.A., Auditor.
Purser, L. C., M.A., Litt.D., Vice-Provost.
Roberts, W. R. W., D.D., Senr. Lectr.
Culverwell, E. P., M.A., Senr. Dean and Catechist.
Russell, R., M.A., Bursar.
Fry, M. W. J., M.A., Registrar.
Macran, H. S., M.A.

JUNIOR FELLOWS OF THE COLLEGE

Gwynn, E. J., M.A., Sen. Proctor.
Thrift, W. E., M.A.
Smyly, J. G., Litt.D.
Mooney, G. W., M.A.
*Kennedy, W., M.A.
*†Goligher, W. A., M.A., Litt.D.
*†Fraser, J., M.A.
*†Alton, E. H., M.A.
*Gwynn, R. M., B.D.
†Webb, G. R., M.A., Junr. Bursar and Registrar of Chambers, Junr. Proctor.
*Tate, Sir Robert W., K.B.E., M.A., Junr. Dean.
*Thrift, H., M.A.
*†Canning, H., M.A.
*†Luce, A. A., D.D.
*Johnston, J., M.A.
*Henry, J. M., M.A.
*†Godfrey, F. La T., M.A.
Joly, John, Sc.D.
Rowe, C. H., M.A.
Fearon, W. R., Sc.D.
Starkie, W. F., Litt.D.
Synge, J. L., M.A.

* Tutor Fellows. † Honor. Lecturers for 1924–25.

PUBLIC ORATOR—Sir R. W. TATE, M.A
LIBRARIAN—J. G. SMYLY, Litt.D.
REGISTRAR—M. W. J. FRY, M.A.

REGISTRARS OF THE PROFESSIONAL SCHOOLS

Law—W. A. Goligher, Litt.D.
Physic—G. L. Allen, M.A.
Engineering—W. E. Thrift, M.A.
Music—H. S. Macran, M.A.
Civil Service—E. H. Alton, M.A.
Education—R. J. Fynne, M.A.
Agriculture—J. Joly, Sc.D.
Commerce—G. Waterhouse, Litt.D.

LADY REGISTRAR—OLIVE C. PURSER, M.A.
WARDEN OF TRINITY HALL—ELIZ. M. CUNNINGHAM, M.A.

PROFESSORS, LECTURERS, ETC.

Anatomy, v. Zool. and Med.—Surg.

Anglo-Saxon, v. German

Arabic, Persian, and Hindustani
Haig, Sir T. W., K.C.I.E., C.S.I., C.M.G., C.B.E. (Reader in Ind. Hist.) Prof.

Astronomy
..... Royal
Astronomer of Ireland Prof.
Martin, C. Asst.

Biblical Greek and Hebrew
Gwynn, R. M., B.D. Prof.

Botany
Dixon, H. H., Sc.D. Prof.
Clark, T. A. Bennet, M.A. Ox. Asst.

Celtic Languages
Gwynn, E. J., M.A. Lectr.

Chemistry
Young, S., Sc.D. Prof.
Ramsden, W. C. Sr. Asst.
Bailey, K. C., M.A. Lectr.
Bell, J. Jr. Asst.

Chemistry, Applied
Werner, E. A., Sc.D. Prof.

Classical Archæol., v. Hist.

Classical Composition
Tate, Sir Robert W., M.A. Lectr.

Classics
Smyly, J. G., Litt.D. (Greek) Regius Prof.
Mooney, G. W., M.A. (Latin) Prof.
The Tutorial Staff Lectrs.

Dental Science, v. *infra*

Divinity, v. also Bibl. Gk., Hist., Theol.
M'Neile, A. H., D.D. Regius Prof.
White, N. J. D., D.D. (Lectr. in Hebrew) Abp. King's Prof.
Dungan, W. W., M.A. Wallace Lectr.
Luce, A. A., D.D. Asst.
Forrester, J. C., M.A. Asst
Greene, D. C., B.D. Asst.
Oulton, J. E. L., M.A. Asst.

Economics
Duncan, G. A., B.A. Lectr.

Education
Fynne, R. J., M.A. Dub. and Lond. Prof.

Engineering, Civil
Clark, D., B.Sc. Lond., A.M.I.C.E. Prof.
Jackson, J. T., M.A. Asst.
Blair, S. C., M.A.I. Asst.
Cotter, J. R., M.A. Lectr.

Engin. Practice, Elec.
Tatlow, W., M.A., B.A.I. Lectr.

Engineering, Elec. Traction
Harriss, G. M., M.A. Lectr.

Engineering, Harbour
Griffith, Sir J. P., M.A.I. Hon. Prof.

Engineering, Sanitary
Ross, G. M., M.A., B.A.I., M.Inst.C.E.I. Lectr.

English Literature
Trench, W. Fitz J., Litt.D. Prof.

French, v. also Romance
The Tutorial Staff Lectrs.

Geology and Mineralogy
Joly, J., M.A., Sc.D. Prof.
Poole, J. H. J., Sc.D. (Asst. in Physics also) Research Asst.
Smyth, L. B., Sc.B. (Palæontology) Asst. and Lectr.

German [Prof.
Waterhouse, G., M.A. Camb., Litt.D. (Lectr. in Anglo-Saxon)

Hebrew, v. also Bibl. Greek, Div.
Kennedy, W., M.A. Lectr.
Alton, E. H., M.A. Lectr.

History, Ancient, and Classical Archæol. [Prof.
Goligher, W. A., M.A., Litt.D.
Johnston, J., M.A. Asst.

History, Ecclesiastical
Lawlor, H. J., D.D., Litt.D. (also Lectr. on Engl. Bible) Prof.

History, Indian, v. Arabic

History, Modern
Curtis, E., M.A. Ox. (also Prof. of Oratory) Erasmus Smith's Prof.
Phillips, W. A., M.A. Ox. Lecky Prof.
Maxwell, Constantia E., M.A. Lectr.

Irish
O'Rahilly, T. F., M.A. Prof.

Italian, v. also Romance
Tate, Sir R. W., K.B.E., M.A. Lectr.

Law
Bastable, C. F., LL.D. (also Prof. of Pol. Econ.) Reg. Prof.

Law, Feudal and English
Baxter, J. S., LL.B. Lond., M.A., LL.D. Reg. Prof. (also Lectr. in Civil L. and Jurispr.).

Law, Const. and Crim., etc.
Moran, Frances E., LL.D. Reid Prof.

Mathematics
Rowe, C. H., M.A. Acting Erasmus Smith's Prof. and Donegal Lectr.
Broderick, T. S., M.A. Lectr.
The Tutorial Staff Lectrs.

Medicine and Surgery, v. *infra*

Modern East Indian Langs.
..... Lectr.

Music [Prof.
Kitson, C. H., M.A. Camb., Mus.D. Ox., F.R.C.O.

Oratory, v. History
Curtis, E., M.A. Ox. Erasmus Smith's Prof.

Oriental Langs., v. Arabic, Hebrew, Modern, Sansk.

Philosophy, Moral
Macran, H. S., M.A. Prof.

Mental and Moral Science
The Tutorial Staff Lectrs.

Philosophy, Natural
Synge, J. L., M.A. Prof.
The Tutorial Staff Lectrs.

Physics, v. also Geol.
Thrift, W. E., M.A. Erasmus Smith's Prof. of Nat. & Exper. Philos.
Thrift, H., M.A. Asst.

Physiology, v. Med.

Political Economy, v. Law

Romance Languages, v. also French, Ital.
Rudmose-Brown, T. B., M.A., D.Litt. Grenoble. Prof.
Starkie, W. F., Litt.D. Lectr.

Sanskrit and Comp. Philol.
Canning, H., M.A. Prof.

Theology, Pastoral
Drury, T. W. E., M.A. Prof.

Zoology and Comp. Anat.
Gatenby, J. B., D.Phil. Ox., D.Sc. Lond. Prof.
King, Dorothy S., B.A., Sc.B. Asst.

Medicine

Anæsthetics [Lectr.
Kirkpatrick, T. P. C., M.D., Litt.D.

Bact. and Preventive Medicine
Bigger, J. W., M.D. Prof.
Horgan, E. S., M.B. Asst.

Laryngology and Otology
Woods, Sir Robt. H., M.Ch. Hon. Prof.

Materia Med. and Pharmacy
..... King's Prof.

Med. Jurispr.
Bewley, H. T., M.D. Lectr.

Medicine, Institutes of, and Physiology.
Pringle, H., M.D. King's Prof.
Fearon, W. R, Sc.D. Asst.

Medicine, Practice of
Craig, Sir James, M.D. King's Prof.

Midwifery
Wilson, T. H., M.A. King's Prof.

Pathology
Wigham, J. T., M.D. Prof.
Lait, J., M.B. Junr. Asst.
Pringle, Seton, M.B. Hon. Lectr. (P. of Bone).

Physic
Moorhead, T. G., M.D. Regius Prof.

Public Health, v. also Engineering
Falkiner, N. M., M.D., D.P.H. Lectr. (Sany. Law and Vital Statistics).

Surgery and Anatomy
Dixon, A. F., M.B., Sc.D. Prof.
Taylor, Sir Wm., K.B.E., M.D. Regius Prof. of S.
Gordon, T. E., M.B. Prof. of S.
McConnell, A. A., M.B. Lectr. in Applied A.
West, C. M., M.D. Chief Demr. and Univ. Anatomist.
Haughton, W. S., M.D. Hon. Prof. (Orthopædic S.).

Dental Science

Hogan, J. E., L.D.S. Lectr. (*Dental Surg. and Pathol.*).
Friel, E. S., M.Dent.Sc. Lectr. (*Orthodontia*).
Cockburn, J., L.D.S. Lectr. (*Dental Mechanics*).

ASSOCIATED COLLEGES

MAGEE COLLEGE, LONDONDERRY, for first three years of B.A. course.

CHURCH OF IRELAND TRAINING COLLEGE, KILDARE PLACE, DUBLIN. The two-years' course of training for teaching in elementary schools is conducted partly at Trinity College, Dublin, and counts towards the Dublin B.A. subject to the candidate qualifying in Latin and a modern foreign language before proceeding as " Sophisters " (3rd year).

GENERAL INFORMATION

Trinity College was founded and incorporated by Royal Charter in 1592 as " Mater Universitatis," but no other College has been founded, so that " Dublin

Univ." and "Trinity College" are practically interchangeable terms. The Corporation of the College was put on its present basis by Letters Patent of 1637. Letters Patent of 1911 transferred the powers of making statutes from the Crown to the Corporation. The general government of the Univ. is in the hands of the Board of Trinity College, which consists of the Provost, Senior Fellows, 2 representatives of Junior Fellows, and 2 representatives of the non-Fellow Profs. The Univ. Council, formed by representatives from the various Faculties and Schools, has the right of appointment to most Professorships, and in conjunction with the Board can make changes in the curriculum, but otherwise has only advisory functions. The power of making new statutes was reserved to the Crown until 1911, when by Letters Patent this power was given to the Board subject to the consent of a majority of the Fellows and the approval of the Visitors.

The College occupies a large site in the middle of the city, with ample grounds for the athletic clubs.

THE LIBRARY of Trinity College has enjoyed since 1801 the privilege of receiving a copy of every book published in England. It contains 372,000 volumes and 2000 MSS., affording an unrivalled field for the study of Irish palæography. A catalogue of MSS. in the Library was published in 1900. There is a lending library of 6000 vols. bequeathed by the late W. E. H. Lecky, and departmental libraries in German and the Romance Languages, in Mathematics, in Botany, and in Zoology.

MUSEUMS. The scientific museums include Zool. and Comp. Anat., Geol. and Mineral., Surg. and Med., Path., Mat. Med., Anthropom., Engin. Models, Nat. Philos. The Zoological are among the best collections in the country. The series of vertebrate osteology is extensive. Attached Laboratories offer all facilities for research work. The collection of Geological and Mineralogical specimens is also extensive.

LABORATORIES. Anthrop., Bio-Chem., Bot., Chem., Geol., Histology, Mat. Med., Mech. Engin., Pathology, Physical (Iveagh), Physiol., Zool.

HERBARIUM (rich in plants of N. America, India, S. Africa, and Australia). BOTANIC GARDENS, 8 acres.

The Astronomical Observatory of Trinity College is at Dunsink, 5 miles from the College. It is the official residence of the Royal Astronomer of Ireland.

Ample facilities for clinical studies and many appointments for graduates are available in numerous HOSPITALS, including the well-known Rotunda. The Irish High Court is situated within a short distance of the College.

PROFESSIONAL SCHOOLS. Divinity, Law, Physic, Engineering, Indian and Home Civil Service, Agriculture, Forestry, Music, Education, Commerce.

DEGREES. Every student must take the B.A. before proceeding to any other degree, except those in music. The course lasts 4 yrs., but it is only necessary to keep 2 out of the 3 terms in each, or 8 in all. It is also possible to complete the course within 3 yrs. from entrance by taking the final examn. of the 1st yr. at the time of entering and keeping all 3 terms of the 2nd yr. However, all students not in a professional school are required to attend Arts lectures in every term, unless specially exempted (*e.g.* those earning their living by teaching). If exempted they are permitted to keep all of their 8 terms by examn. instead of by attendance.

For the first 2 yrs. (Junr. and Senr. Freshman) all subjects are compulsory: Algebra, Geom., Trig., Mech., Logic, Engl. Essay, Latin, Greek *or* French *or* Irish *or* German. After the examn. ("Little-Go") at the end of the 2nd

yr. wide freedom of choice is allowed of subjects for the remaining (Junior and Senr. Sophister) yrs., and exemption from one subject is granted to Law, Engin., Comm., and Div. students. For Med. students there is a specially reduced Arts course throughout.

Pass Arts teaching, mainly given by the Tutor Fellows, is partly of a catechetical nature. Every student must choose one of the Tutor Fellows (see list above) as his Tutor and should apply to him for all information before and after entrance.

The *Honour* B.A.—known as a *Moderatorship*—can be taken in 11 different groups (viz. 1 Math., 2 Class., 3 Ment. and Mor. Philos., 4 Exp. Sc., 5 Nat. Sc., 6 Hist. and Pol. Sc., 7 Mod. Lit., 8 Leg. and Pol. Sc., 9 Eng. Sc., 10 Celtic, 11 Oriental Lang.), and undergraduate honours in the same subjects (except Nos. 9 and 11) can be obtained in each academic year and in most subjects in each term. The course lasts four years in the case of Nos. 1, 2, 4, 5, 6, 7, three years in Nos. 3 and 10, and two years in No. 8. Instruction in these Honour courses is given partly by the Profs. and partly by the Tutorial staff.

A B.A. of three years' standing may be admitted M.A. There is no examn. for this, nor is a thesis required.

The B.D. is obtained by an examn. open to all grads. in Arts, and the D.D. is open to any B.D., eight years after taking B.A., and is awarded on a thesis or published Theol. work.

The LL.B. course covers 2 yrs.; the M.B., B.Ch., and B.A.O., 5 yrs.; B.Dent.Sc., 4 yrs.; B.A.I., 3 yrs. (optional 4th yr. in Elec. and Mech. Engin.); Agr.B. or Agr. (Forest) B., 4 yrs., of which 3rd and 4th are taken in Coll. of Science; B.Comm., 3 yrs. The Sc.B. and Ph.D. (v. p. 17) involve post-graduate study and research for 1 yr. and 2 yrs. respectively.

A candidate for the Sc.D. or Litt.D. must have at least 3 yrs.' standing as B.A., and submit important original work; for LL.D. must be of M.A. standing—a thesis or examn. is required; for M.D. must have taken the M.B. degree and be of M.A. standing; for M.Ch. must be a B.Ch. of 3 yrs.' standing; for M.A.O., a B.A.O. of 2 yrs.' standing; a thesis or examn. is required for M.D., an examn. for the M.Ch. or M.A.O. A candidate for M.Dent.Sc. must be a B.Dent.Sc. of 1 yr.'s standing, and pass an examn.; for M.A.I. must have practised his profession for 3 yrs. after graduating as B.A.I. The Mus.D. is granted after an exercise or practical test.

DIPLOMAS in Agric., Educn. (Primary and Higher), Econ. and Comml. Knowledge, Elec. Engin., Gynæc. and Obst. (1 yr. course), D.P.H., Religious Knowledge (women).

License in Engineering (first two years of Arts course and complete course in Engineering). License in Med., Surg., and Obst. Science.

Certificate in Engineering (complete course in Engineering, but without Arts course).

Testimonium in Divinity (2 yrs.' course).

RECOGNITION OF OTHER UNIVS., ETC. Credit is allowed for terms kept at Oxford or Cambridge, but no student or graduate of any other Univ. can take the B.A. unless he has kept at least 2 yrs. at Trinity College. No student can take any medical degree unless he has attended at least 3 yrs. in Trinity College.

A B.A., B.Sc., or M.A. of any of the undermentioned Univs. may be allowed credit *pro tanto* for the first 2 yrs. and the examn. held at their expiration: Aberd., Belf., Birm., Brist., Edin., Glas., Leeds, Liver., Lond., Manch., St. And., Sheff., Wales, and Nat. Univ. of Ireland.

A student who has passed two years in Arts studies at any of the under-

mentioned Univs. and passed the examns. belonging to that period is given credit *pro tanto* for the first academic year: Adel., All., Bom., Cal., Dacca, Dalh., McGill, Madr., Mel., N.Brun., N. Zea., Panj., Patna, Syd., Tas., Tor., King's Coll. (Windsor, N.S.).

A student who has passed the Matricn. examn. of any Univ. in S. Africa, including Latin, Maths., and either French, German, Dutch, or Greek, is admitted without further examn., and, if a Med. student, is excused the Prelim. Med. examn. Medical students are given credit for lectures and examns. in Zool., Bot., Chem., and Physics of any S. African Univ., and also for lectures and practical work in Anat. and Physiol., but not for the examns. in these last two subjects. Courses in Path. and Bact. at Cape Town and Witwatersrand are also recognized.

A student who has passed the Interm. examn. of any Univ. in S. Africa is permitted to present himself at the Final Freshman examn., with exemption from those subjects in which he has already passed at the Interm. examn.

A student who has passed the B.A. examn. of any Univ. in S. Africa is allowed credit for the 1st two collegiate yrs. and for the Final Freshman examn.

To students admitted to advanced standing the entrance fee is remitted and in most cases some of the half-yearly Arts fees.

In keeping terms students from S. Africa are allowed to substitute Dutch for French or German, when 2 languages are required.

Likewise the Board and Council are prepared, in the case of students of Medicine, to consider applications from Colonial Univs. and Colls. for recognition of courses of instruction given by them.

Students from S. Africa should write to the Senior Lecturer for fuller information.

No recognition granted under this scheme will exempt a student wishing to take the Dublin degree from spending at least three full years of Med. study in Trin. Coll.

FEES. Entrance, £15; Composition for all Arts Lectures, 20 gs. p.a.; Medical course total (including Hospitals and Degree fees), about £150; Dental Science total, about £200; Engineering, (3 yrs.) £50 (minimum), in addition to Arts Tuition fees; Divinity free for students in Arts, 20 gs. p.a. for others; Commerce, £47 (if Arts Course is taken), £80 (for external students).

Among SCHOLARSHIPS, PRIZES, ETC., OPEN TO GRADUATES are: Two studentships of £100 offered at the B.A. degree examn.; prizes from £50 upwards to selected honour graduates with conditions of study and research attached. Madden Prize Fund £424 p.a. awarded to unsuccessful candidates at Fellowships examn. or for research work or as a *Travelling* Scholarship. *Travelling* Prize, £100 in Medicine or Surgery (3 mos. to be spent in Berlin, Paris, or Vienna). A number of other prizes, etc. (including the National Hist., nearly £400), are open to graduates under M.A. standing.

RESIDENCE. The College has accommodation for 320 students. Rent £9 to £20 p.a. for single sets, £14 to £32 for double sets of rooms; dinner in Hall, 14s. a week. Trinity Hall accommodates 40 women; board and residence, £23 : 10s. to £28 : 10s. per term of 10 weeks. There is also a hostel for Divinity students of the Church of Ireland.

PUBLICATIONS. *Calendar* (Oct.), 4s., includes information as to courses, results of examns., degrees conferred, etc.; special Suppt. (occasional), lists of past honours, benefactors, etc.; *Examn. Papers* of the several Honour schools; of the several Professional schools; of Entrance examns. and prizes; and of Pass Arts, are published in pamphlet form at 1s. per set. The final *War List* has been published, price 2s. 6d. *Book of T.C.D.*, 1591–1891, 21s. (Hodges,

Figgis & Co., Dublin). *Hermathena* (occasional), original papers in Arts subjects. *T.C.D.* (Students'), 3d. weekly.

THE YEAR 1924–25

HONORARY DEGREES. *Mus.D.*—Harty, Sir H. H. *M.Ch.*—Crile, G. W.; Mayo, C. H. *D.Sc.*—Hill, J. P.; Hopkins, Sir F. G. *D.Litt.*—Macalister, R. A. S. *LL.D.*—Lowe, Rev. W. J.

OTHER DEGREES. D.D., 1; Ph.D., 2; LL.D., 6; M.Ch., 2; Mus.D., 1; Mus.B., 1; D.Litt., 2; D.Sc., 3; M.D., 12; M.A.I., 2; B.D., 6; LL.B., 6 (including 2 women); M.A., 69 (w.—8); M.B., 87 (w.—8); B.A.I., 18; B.Sc., 6 (w.—2); B.Dent.Sc., 4 (w.—1); B.Agr., 1; B.A., 190 (w.—49).

DEATH. Vice-Provost T. T. Gray. RESIGNATIONS: E. C. Smith, Asst. in Bacteriology (for post in W. Afr. Med. Service); M. J. Ryan, Prof. of Law (on expiry of tenure); J. M. Purser, Reg. Prof. of Physic.

LEGISLATION. School of Commerce founded and degree of B.Comm. instituted. Exhibitions for S. African students abolished. Salaries of Foundation Scholars raised, but tenure terminated at graduation unless post-graduate studies are pursued.

CHANGE OF COURSES. Dental Curriculum is to include Bot., Zool., Pathology, Bacteriology.

BENEFACTIONS. Scholarship in memory of late Prof. A. C. O'Sullivan, subscribed, £48 p.a. Portrait of Provost Pratt from Rev. J. W. F. Sheppard.

NEW DEVELOPMENT. A six-weeks' Summer Course (in Pol. Econ. and Social Science, History and Literature, and Languages) for students from American Universities has been arranged for 1926 on the understanding that it shall be assigned appropriate credit at the American Univs. from which the students come.

STUDENTS, June 1925: in Arts (including most professional students other than fifth-year medical), undergrads., 825 (including women—216); graduates, 47 (w.—16). Total, 872. In addition 164 medical students not at the time on the books in Arts, and 81 primary teachers in training.

DONELLAN LECTURER—Dr. Nathan Soderblöm.

THE NATIONAL UNIVERSITY OF IRELAND

VISITOR—H.M. THE KING.

CHANCELLOR—EAMON DE VALERA, B.A., B.Sc.

VICE-CHANCELLOR—DENIS J. COFFEY, M.A., M.B., B.Ch., B.A.O., LL.D. President, Univ. Coll., Dublin—*until* Dec. 31, 1926.

PRO-VICE-CHANCELLORS—THE PRESIDENTS, UNIV. COLLS., DUBLIN AND GALWAY, AND ST. PATRICK'S COLL., MAYNOOTH.

REPRESENTATIVES IN THE DAIL—M. HAYES, M.A.; P. M'GILLIGAN, M.A.; W. MAGENNIS, M.A.

REGISTRAR—FRED. H. WIBER, LL.D., 49 Merrion Square, Dublin.

CONSTITUENT COLLEGES. University Colleges, Dublin, Cork, and Galway.

RECOGNIZED COLLEGE. St. Patrick's College, Maynooth.

PROFESSORS AND LECTURERS

Prof. of Catholic Theology—J. J. Hannon.

Staffs of the Univ. Colleges, v. *infra.*

Recognized Teachers in approved degree courses in St. Patrick's College, Maynooth (President—Rt. Rev. Monsignor MacCaffrey, Ph.D.). *Classics*—J. F. D'Alton, M.A., D.D., D.Litt.; T. Fahy, M.A.; J. Duff, M.A. *Eastern Languages*—P. Boylan, M.A., D.Litt. *English*—C. Mulcahy; P. MacSweeney, M.A. *French and German*—J. L. Rigal, M.A. *Irish*—G. O'Nolan, M.A., D.Litt. *Maths. and Math. Physics*—P. J. Browne, M.A., D.Sc. *Expl. Physics*—P. J. Nolan, M.Sc., Ph.D. *Mental and Moral Philos.*—M. Forker, D.Ph., D.D.; P. Coffey, D.Ph.; J. O'Neill, D.Ph. *Music*—..... *Welsh*—P. Walsh, M.A.

GENERAL INFORMATION

Queen's University in Ireland, founded in 1850, was replaced in 1880 by the Royal University of Ireland, which was dissolved along with Queen's College, Belfast, on Oct. 31, 1909. On this date the National University of Ireland, Univ. College, Dublin, and Queen's University of Belfast came into being, and the Colleges previously known as Queen's at Cork and Galway became with the new College at Dublin constituents of the N.U.I.

FACULTIES. (1) Arts, (2) Philosophy and Sociology, (3) Celtic Studies, (4) Science, (5) Law, (6) Medicine, (7) Engineering and Architecture, (8) Commerce. Music is included in Arts and Celtic Studies. Classes are held in all Faculties at each of the constituent Colleges, and in 1, 2, 3, and 4 at Maynooth.

DEGREES: B.A., M.A., D.Litt., B.Mus., D.Mus., D.Litt.Celt.; B.Sc.,

B.Agr.Sc., M.Sc., M.Agr.Sc., D.Sc.; LL.B., LL.D.; M.B., B.Ch., B.A.O., M.Ch., M.A.O., M.D., B.Sc. and D.Sc. in Pub. Health, B.D.S., M.D.S.; B.E., B.Arch., M.E., M.Arch.; B.Comm., M.Comm.; Ph.D.

Course for a First degree in any faculty—9 terms in one of the Constituent Colls. or St. Patrick's.

The M.Sc., M.Agr.Sc., D.Sc., B.Sc, Pub. Health, M.E., M.Arch., Ph. D. may be conferred on graduates or other students for research under prescribed conditions in the Univ. or in a Constituent Coll. during at least 3 terms for a Master's degree or 6 terms for the Doctorate. The duration prescribed for the course of study and research for the Ph.D. is 9 terms (reducible to 6). See p. 17.

Diplomas are offered in the subjects of Faculties 1, 3, 8, and in several others; certificates in Commercial subjects. A Higher Diploma in Educn. may be obtained by a graduate of any Univ. of the U.K. or other approved Univ. after a course in one of the Constituent Colls.

FEES: Matricn., £3. Combined examn. and degree, £9 to £21. Diplomas £2 to £5.

STUDENTSHIPS, ETC., FOR GRADUATES. Five of £200 each, tenable for 2 yrs. outside Ireland (to which a prize for a further year of Irish Historical Research may be added), open to graduates of the Univ. of not more than 4 yrs.' (one in Medicine, 2 yrs.') standing; one of £150 in Mental and Nervous Diseases; one of about £40; prize of £100 for Irish Historical Research.

PUBLICATION. *Calendar* (July), 2s.

THE YEAR 1925. Degrees, etc., conferred: B.A., 233 (including 53 women); M.A., 13 (w.—2); D.Litt., 2; B.Sc., 43 (w.—15); M.Sc., 14 (w.—3); B.Agr.Sc., 11; LL.B., 1; M.B., etc., 188 (w.—36); M.D., 6; B.D.S., 24 (w.—5); B.E., 36; B.Comm., 65 (w.—36); D.P.H., 13 (w.—7); Diploma in Mental Diseases, 1; Higher Dip.Ed., 71 (w.—42); Dip. in Ed., 55 (w.—17); Diploma in Irish Studies, 4 (w.—1); Cert. in Comm., 1.

UNIVERSITY COLLEGE, DUBLIN

VISITOR—H.M. THE KING.

PRESIDENT—D. J. COFFEY, M.A., M.B., B.Ch., B.A.O., LL.D.

REGISTRAR—Prof. A. W. CONWAY, M.A., D.Sc., F.R.S.

SECRETARY AND BURSAR—J. W. BACON, M.A.

LIBRARIAN—J. J. O'NEILL.

PROFESSORS AND LECTURERS OF THE UNIVERSITY

Accountancy
O'Connor, D., A.C.A. Lectr.

Agriculture [Prof.
Drew, J. P., M.Sc., A.R.C.Sc.I.

Anatomy
M'Loughlin, E. P., B.A., M.B., B.Ch., B.A.O. Prof.

Archæology, Celtic [Prof.
Macalister, R. A. S., M.A., D.Litt.

Architecture
Butler, R. M., F.R.I.B.A., F.R.I.A.I. Prof.

Banking and Finance
Leet, F. L., LL.D. Lectr.

Botany
Doyle, Joseph, B.A., M.Sc. Prof.

Chemistry
Ryan, H., M.A., D.Sc. Prof.
Algar, J., M.A., D.Sc. Lectr.

Classics
Tierney, M., M.A. (Greek) Prof.
Semple, P., M.A. (Latin) Prof.

Commerce
Shields, B. F., M.A. Prof.

Dentistry, v. *infra*

Economics, National, of Ireland
Oldham, C. H., B.A., B.L. Prof.

Education [Prof.
Corcoran, T., S.J., B.A., D.Litt.

Engineering, Civil
Purcell, P. F., M.A., M.A.I., A.M.I.C.E. Prof.

English Lang. and Philology
..... Prof.

English Literature
Donovan, R., B.A. Prof.

French and Romance Philol.
Chauviré, R., D. ès L. Prof
O'Kelly, Mary, B.A. Lectr.

Geology
Seymour, H. J., B.A., B.Sc. Prof.

German
Macken, Mrs., M.A. Prof.

History [Prof.
O'Sullivan, J. M., M.A., Ph.D.
Webb, J. J., M.A., LL.D. Dublin Corpn.
Lectr. in Municipal H. (acting).

History, Early, including Mediæval Irish
MacNeill, J., B.A., D.Litt. Prof.

History, Modern Irish
Hayden, Mary T., M.A. Prof.

Irish, Early and Mediæval
Bergin, O., D.Litt. Wales, B.A., Ph.D. Prof.

Irish Lang. and Lit., Modern
Hyde, D., LL.D., D.Litt. Prof.

Irish Language
O'Farrelly, Agnes, M.A. Lectr.

Italian and Spanish
Degani, Maria A., Dipl. Univ. Padua Prof.

Law, Const., and Wrongs
MacNeill, J. G. Swift, M.A. Ox., K.C. Prof.

Law, Jurispr., and Internat. and Roman [Prof.
Binchy, D. A., M.A., Ph.D.

Law of Property and of Contracts
Clery, A. E., B.A., LL.D., B.L. Prof.

Mathematics
M'Weeney, H. C., M.A. Prof.

Mathematics, Pure
Egan, M. F., S.J., M.A. Lectr.

Mathematical Physics
Conway, A. W., M.A., D.Sc., F.R.S. Prof.

Medicine and Surgery, v. *infra*

Music
Larchet, J. F., Mus.D. Prof.

Music, Irish
O'Dwyer, R.
Dublin Corpn. Prof. (acting).

Oriental Languages
Boylan, P., M.A., D.Litt. Prof.

Philosophy
O'Keeffe, D., M.A. (Ethics and Politics) Prof.
Shine, J., M.A. (Logic and Psychology) Prof.
Magennis, W., M.A. (Metaphysics) Prof.

Physics, Experimental
Nolan, J. J., M.A., D.Sc. Prof.
Dowling, J. J., M.A., F.Inst.P. Lectr.

Physiology and Histology
O'Connor, J. M., B.A., M.D. Prof.

Political Economy, v. also Econ.
Finlay, T. A., S.J., M.A. Prof.

Welsh
Jones, J. Ll., M.A., B.Litt. Prof.

Zoology
Butler, J. B., M.A., M.B., B.Ch., B.A.O. Prof.

Medicine

Hygiene and Med. Jurispr.
Meenan, J. N., M.B., B.Ch., B.A.O., D.P.H. Prof.

Mat. Med. and Therap.
Hayes, Maurice, F.R.S.C.I. Prof.

Medicine
..... Prof.

Midwifery and Gynæc.
Farnan, R. P., M.B., B.Ch. Prof.

Ophthalmology
Werner, L., B.A., M.B., B.Ch., B.A.O., F.R.C.S.I. Prof.

Pathology and Bacteriology
..... Prof.
O'Farrell, T. T., F.R.C.S.I., D.P.H. Lectr.
O'Kelly, W. D., B.A., M.D., D.P.H. Lectr.

Pathology, Special
Crofton, W. M., B.A., M.D. Lectr.

Surgery [Prof.
M'Ardle, J. S., M.Ch., F.R.C.S.I.

Dentistry

Sheridan, E., F.R.C.S.I., L.D.S. Prof. (D. Surg.).
Potter, J. I., L.D.S. Prof. (D. Mech.).
Flanagan, L., B.D.S., M.B., B.Ch. Lectr. (Orthod.).

GENERAL INFORMATION (v. also p. 312)

The College was constituted by Royal Charter in 1909. The LIBRARY, 65,000 vols., includes the books of the late Catholic Univ. and R.U.I., the Palles Law Library (presented by Archbishop Walsh), the Stopford Green and

the Zimmer Celtic Library. MUSEUMS · Ancient History. LABORATORIES include those of the late R.U.I. and of the new buildings completed in 1919.

COURSES are provided for the degrees of the N.U.I. in all Faculties.

FEES for tuition, annual, in degree courses: Arts or Comm.—14 gs.; Science—£20 to £25; Engin.—£20 to £23; Law (in addition to Arts)—8 gs.; Med. (including Coll. Hospl.), whole period—£165.

COLLEGE SCHOLARSHIPS, post-graduate in Arts or Science, 5 of £60.

RESIDENCE. Hostels for men and for women. Students are subject to supervision by Deans of residence.

PUBLICATION. *Calendar*, Nov. 5s.

THE YEAR 1923–24. *Degrees* obtained: B.A., 87; M.A., 11; B.Com., 21; B.Sc., 26; M.Sc., 8; LL.B., 2; M.B., 101; M.D., 1; M.A.O., 2; D.P.H., 7; B.D.S., 8; H.Dip.Ed., 42; B.E., 19. *Students*: graduates, 28; full-time undergraduates, 1174; occasional, 27. Total, 1232 (women—304).

COLLEGE OF SCIENCE FOR IRELAND, DUBLIN

[Under the control of the Department of Education of the Free State Government]

[Associates of the College marked *.]

Agriculture, v. also For., Hort., Vet.
Wilson, J., M.A., B.Sc. Prof.

Agric. Botany
*Gorman, M. J. Lectr.

Agric. Chemistry
Stephenson, G. Lectr.

Bacteriology
Denham, C. H., B.A., M.B. Lectr.

Botany
Johnson, T., D.Sc., F.L.S., M.R.I.A. Prof.
*O'Connor, P., B.Sc. Demr.

Chemistry, Organic
O'Farrelly, A., M.A., F.I.C. Lectr.

Chem., Phys. and Metall. [Lectr.
*Leonard, A. G. G., B.Sc., Ph.D.

Engineering, v. also Physics
*Taylor, J., M.A. Acting Prof.
*Warwick, F. W., B.A., B.E. Demr.
*Cormack, P., F.R.C.Sc.I. Demr.

English and Education
Williams, W. J., M.A. Lectr.

Forestry [Prof.
Henry, A., M.A., F.L.S., M.R.I.A.

Geology
..... Prof.

Horticulture
*Sherrard, G. O. Lectr.

Mathematics [Prof.
Orr, W. McF., M.A., D.Sc., F.R.S.
Johnston, J. P., M.A., Sc.D. Lectr.

Physics and Elec. Engineering
Hackett, F. E., M.A., M.Sc., Ph.D. Prof.
*Allen, R. G., B.Sc., A.M.I.E.E. Lectr.
*O'Callaghan, P. Demr.

Veterinary Hygiene
Mason, F. C., M.R.C.V.S. Lectr.

The College is housed in new buildings, and the LABORATORIES are fitted throughout with all modern appliances. Facilities for technical research

in all branches of Chemistry, *e.g.* extraction of metals, production of metallic alloys, glazes, enamel, glass, pigments, paints, coal-tar derivatives, peat products, synthetic drugs. Engineering Pattern Shop, Foundry, Smithy, Machine Shop; examples of types of engines aggregating 700 H.P. Hydraulics and Hydraulic Machinery Labs. Testing Machines recording up to 100 tons. Elect. Engin. Labs. with D.C. and A.C. machines. Extensive Physics, Agric., and Nat.Sc. equipment. LIBRARY with 50,000 Scientific and Tech. books, 10,000 pamphlets, numerous maps, etc.

The Regular COURSES extend over 4 yrs. leading to the *Associateship* of the College in Agric. (4 groups), Applied Chem., Engin., Science Teachers' courses (Tech., Expl. Sc., Nat. Sc., Rural Sc.).

RECOGNITION OF COURSES. *Agriculture.* 3rd and 4th yrs. accepted by the N.U.I. and Dublin Universities as component parts of the approved courses for a degree in Agr. *Mech. and Elec. Engineering*: The 3rd and 4th yrs. accepted by the N.U.I. as part of the approved course adopted by Univ. College, Dublin, for the degree B.E. in these subjects. The Associate Course accepted by Dublin Univ. as counting towards a degree in these subjects. *Chemistry*: Similar recognition by Dublin Univ. to the Associate Course.

The *Fellowship* of the College may be awarded to any Associate of at least 3 yrs.' standing who (1) submits a satisfactory thesis embodying results of original scientific research or investigation or treating critically some branch of Science, or (2) has contributed in a marked degree to the advancement of Science.

Several valuable *Scholarships* are attached to the College, and a number of *Research Studentships* are available.

UNIVERSITY COLLEGE, CORK

VISITOR—H.M. THE KING.

PRESIDENT—P. J. MERRIMAN, M.A.

REGISTRAR—A. O'RAHILLY, M.A., B.Sc., Ph.D.

SECRETARY AND BURSAR—J. DOWNEY, M.Comm.

LIBRARIAN—J. FAWCETT, M.A.

PROFESSORS AND LECTURERS OF THE UNIVERSITY

Accounting

MacCarthy, C. P., M.Comm. Lectr.
1 Demr.

Agriculture

Boyle, C., M.A. Wisc., B.Sc., Ph.D. Lond. D.I.C. Prof.
Grimes, M., M.Sc. Tor., Ph.D. Iowa Asst. (Bacteriology).

Anatomy [Prof.

Fitzgerald, D. P., B.A., M.B.
Henley, F. J., B.A., B.Sc., M.B. Asst.
Kiely, P., B.Sc., M.Ch., M.D. Asst.
1 Demr.

Archæology

Power, P., M.R.I.A. Prof.

Architecture [Lectr.

Hill, H. H., B.A. Liv., A.R.I.B.A.

Botany [Prof.

Cummins, Maj. H. A., M.D., C.M.G.
1 Demr.

Chemistry
Reilly, J., M.A. Camb., D.Sc. Geneva, H.Dip.Ed., F.R.C.Sc.I., F.I.C., F.I.P. Prof.
Taylor, John, D.Sc. Lectr.
Kennedy, R., M.Sc. Asst.
Conroy, T. A., M.A., H.Dip.Ed. ,,

Classics
Treston, H. J., M.A., D.Litt. Prof.
Porter, W. H., M.A. Dub. Lectr.

Dentistry, v. *infra*

Economics and Commerce [Prof.
Busteed, J., M.Comm., F.S.S.

Education, Methods of
O'Sullivan, Eliz. M., M.A. Prof.

Education, History of
M'Sweeney, E. P. Lectr.

Engineering, Civil
Walsh, H. N., M.E., D.I.C. Prof.
Coffey, Patrick, B.E. Asst.

English [Prof.
Stockley, W. F. P., M.A. Dub.

French
Aherne, Catherine, B.A., H.Dip.Ed. Asst.

Geology and Geography
Swain, I., B.A., A.R.C.Sc.I. Prof.

German
Curran, Mary, M.A. Prof.

History
Hogan, J., M.A. Prof.

Irish Lang. and Lit.
O'Donoghue, T. Prof.
O'Donoghue, E. Lectr.
O'Cadhlaigh, C., M.A. Asst.

Irish Music [Lectr.
Patterson, Annie, B.A., Mus.Doc.

Jurisprudence
Murphy, C. K., M.A., LL.B., H.Dip.Ed. Prof.

Law
Dunlea, W. J., LL.D. (Contracts, etc.) Prof.
Daly, George J., B.L. (Real Property) Prof.

Mathematics
Conran, M. J., M.A., D.Sc. Prof.

Mathematical Physics [Prof.
O'Rahilly, A., M.A., B.Sc., Ph.D.
O'Donoghue, T., M.A. Asst.

Medicine and Surgery, v. *infra*

Music
Lacy, F. St. J., F.R.A.M. Prof.

Philosophy
Fitzgibbon, T. E., B.A., Ph.D. Louvain Prof.
Callaghan, Rev. John, M.A. Asst.

Physics
Bergin, W., M.A. Dub. Prof.
Belas, P. E., B.A., M.Sc., A.R.C.Sc.I. Lectr.

Physiology
Barry, D. T., M.D., D.Sc., D.P.H., F.R.C.S. Prof.

Assts.:
O'Donovan, J. M., M.Sc., M.D.
O'Donovan, W. J., B.Sc., M.B.

Romance Languages, v. also French
Ryan, Mary, M.A. Prof.
1 Asst.

Spanish
Cooke, W. C. Lectr.

Zoology
Renouf, Louis P. W., B A. Camb., Dip. Agric. Camb. Prof.
1 Demr.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Hygiene [Prof.
Donovan, D. D., L.R.C.P. and S.E.

Materia Med.
Dundon, J., M.B., B.Ch., B.A.O., F.R.C.S. Prof.
1 Demr.

Medical Jurisprudence
O'Connor, D. J., M.A., M.D., F.R.C.P.I., D.P.H. Lectr.

Medicine
O'Sullivan, P. T., M.D., B.Ch., B.A.O., M.R.C.P. Prof.

Mental Diseases [Lectr.
McCarthy, O. F., L.R.C.P. and S. Edin., L.R.F.P.S. Glas.

Midwifery
..... Prof.

Ophth. and Otology
Sandford, A. W., M.D., M.Ch. Dub. Prof.

Pathology [Prof.
Moore, A. E., M.B., B.Ch., B.A.O.
Enright, Margt. A., M.B., B.Ch., B.A.O., D.P.H. Asst.

Surgery
Pearson, C. Y., M.D., M.Ch., F.R.C.S. Prof.
Pearson, C. B., M.D., M.Ch. Asst.

Dentistry
Hackett, J. R., M.B., L.D.S. Lectr. (D. Surg.).
Sheedy, G., L.D.S. Lectr. (D. Mech.).
Cantillon, E. V., M.B. Asst. (D. Mat. Med.).

Extra-mural Work
McGrath, F. A., B.E. Lectr. in Mech. & Elec. Engin.

GENERAL INFORMATION (v. also p. 312)

Queen's College, Cork, founded in 1845, became a constituent College of the N.U.I. in 1908.

LIBRARY: 100,000 vols., including the d'Arbois de Jubainville collection of Celtic works, the Sharman Crawford Library, the Wilson Historical Library, the Sexton Anglo-Indian Library. MUSEUMS: Archæol., Ethnol., Geol., Mineral., Nat. Hist., Med.

LABORATORIES. Agr., Biol., Chem., Engin. (Testing, 200,000-lb. machine, and Hydraulics), Geol., Physics, Medical School. BOTANICAL GARDENS. OBSERVATORY with 8″ equatorial and 11″ photo. telescopes, seismograph, and 4″ siderostat.

Complete COURSES provided for all degrees and diplomas of the Univ., except 2 years in the B.Sc.Agric. course. Students are also prepared for the examns. of the Univ. of London. The College Certificate in Dairying (2 years' course) must be obtained by all those who wish to become creamery managers in Ireland.

Commerce students can do 6 mos.' practical work in railway or accountants' offices, etc. Courses in Engin. (Mech., Elec., Chem., Workshop Practice, Design, and Drawing) at the Municipal Tech. Sch. qualify for the B.E. degree.

FEES for tuition, including College fee: Arts, £45; Science, £76; Engin., £73; Med., £165, including Hospl. fees; Dentistry, £185, including Hospl. fees; Music, £39.

RESIDENCE. Hostel for men and hostel for women (charitable trust, R.C. only); students are supervised by Officers of Residence.

PUBLICATION. *Calendar* (Easter), 1s. A Cork Univ. Press has been founded (Agents, Educational Comp. of Ireland, and Messrs. Longmans, Green & Co.).

THE YEAR 1924–25. Number of students 580, including 140 women. Full-time students 451. DEGREES OBTAINED (1924): B.A., 18 (women—10); M.A., 4; B.Sc., 4 (w.—1); M.Sc., 1; D.Sc., 1; LL.B., 1; M.B., B.Ch., B.A.O., 53 (w.—14); B.D.S., 4; M.D., 2; M.Ch., 2; B.E., 10; B.Com., 9 (w.—6).

UNIVERSITY COLLEGE, GALWAY

VISITOR—H.M. THE KING.

PRESIDENT—ALEXANDER ANDERSON, M.A. Camb., D.Sc., LL.D.

REGISTRAR AND SECRETARY—Rev. Professor J. HYNES.

LIBRARIAN—Prof. HOWLEY.

BURSAR—Prof. WALSH.

PROFESSORS AND LECTURERS OF THE UNIVERSITY

Anatomy

Shea, S., M.B., B.Ch., B.A.O. Prof.
1 Demr.

Archæology, Celtic

Hynes, J., M.A., B.D. Prof.

Chemistry

Dillon, T., M.A., D.Sc. Prof.
Clarke, Miss R., B.A., D.Sc. Demr.

Classics, Ancient

Dempsey, T., M.A. Prof.

Economics, Commerce, & Acctcy.

M'Bryan, F., M.A., H.Dip.Ed. Prof.
Maughan, J., M.A. Asst.

Education

Larkin, P., B.A., H.Dip.Ed. Prof.

Engineering, Civil

Rishworth, F. S., B.E., B.A., A.M.I.C.E. Prof.
O'Connor, H. G., M.E., A.M.I.C.E.I. Asst.

Engineering, Electrical

Griffith, W. G., B.Sc. Lond., A.M.I.E.E., M.I.C.E.I. Prof.

English Language and Lit.

Byrne, W. A., M.A. Prof.

Geology and Mineralogy

Mitchell, J., B.Sc., B.E. Prof.

German

Shea, Mrs. M. M., M.A. Prof.

History (Special Reference to Irish H.)

Donovan O'Sullivan, Mrs., M.A. [Prof.

Irish Lang., Philol., and Lit.

O'Maille, T., M.A. Manc., Ph.D. Frei. Prof.

Irish, Modern

Mac Enri, S. P., M.A., M.D. Lectr.

Law and Jurisprudence

Arkins, P. A., B.A., LL.B. Prof.

Mathematics

Power, M., M.A., B.Sc. Prof.
Mitchell, J., B.Sc., B.E. Asst.

Medicine and Surgery

Colahan, N. W., M.D., M.Ch. (Fevers, Materia M., etc.) Prof.
Mahon, R. B., M.D., M.Ch., F.R.C.S.E. (Practice of M.) Prof.
English, Adeline, M.B., B.Ch., B.A.O. (Mental Diseases) Lectr.
Kinkead, R. J., B.A., M.D. Dub. (Obst. and Gynæc.) Prof.
Mac Enri, S. P., M.A., M.D. Dub., B.Ch. (Ophth. and Ot.) Prof.
Walsh, T., M.A., H.Dip.Ed., B.Sc., M.D., D.P.H. (Path.) Prof.
O'Malley, M. C., M.B., F.R.C.S.E. (Practice of S.) Prof.

Lectrs. in Med. Jur. & Hygiene: Profs. Kinkead and Walsh.

Assts. in Obst. and Gynæc. and Pharmacy.

Morris, D. V., M.B., M.A.O.
Waters, J. J., M.B.

Natural History

..... Prof.
Connolly, Miss G., M.Sc. Asst.

Philosophy
Howley, J. F. W., D.Litt. Prof.

Physics
The President Prof.
McHenry, J. J., B.A., M.Sc. Asst.

Physiology
Donegan, J. F., M.B., B.Sc. Prof.

Romance Languages
O'Brien, L , M.A. Prof.

GENERAL INFORMATION (v. also p. 312)

Queen's College, Galway, opened in 1849, became a constituent College of the N.U.I. in 1908.

LIBRARY: 50,000 vols. LABORATORIES: Physics, Chem., Biol., Physiol., Path., Geol., Engin. MUSEUMS: Nat. Hist., Mat. Med., Gynæc., Anat. Dept.

DEGREE COURSES in Arts, Celtic, Science, Law, Med., Engin., Commerce. Courses for Diplomas in Educn., Irish Studies, Commerce, and Public Health.

Med. degree students are required to spend 1 yr. at a Metropolitan Hospl. after a 4 yrs.' course in the College and 2 yrs. in the Galway Hospitals.

FEES. College, £2 (women, £1). Degree courses (approximately): Arts, £26; Science, £30 to £45; Law, £12; Medicine (including 2 years General Hospital fees), £78; Engineering, £46; Commerce, £32. Post-graduate or research course, £5.

SCHOLARSHIPS open to students of the Coll. on graduation: 4 of £30.

RESIDENCE. The cost of board and lodging for a student varies from 26s. to 30s. a week. Every student is required to register under a Dean of Residence, who exercises supervision over the general conduct of students outside the precincts, and every woman student under a Lady Supt., who exercises supervision over their conduct within the precincts of the College.

PUBLICATIONS. College *Handbook* and list of licensed lodging-houses, free; Regns. for Degrees and Courses (8d.); Regns. for Scholps. and Diploma in Educn. (2½d.), from O'Gorman and Co., Galway; Univ. Examn. Papers (post free, 1s. 8d.), from Supervisor of Examns., Univ. Coll.

THE YEAR 1924–25. Full-time students: Total, 248, including 98 women; preparing for a first degree, 233 (women—91); graduate students, 15 (women —7). DEGREES OBTAINED: B.A., 9; M.A., 1; B.Sc., 5; B.Agr.Sc., 3; B.Comm., 9; B.E., 10; M.B., 11; D.P.H., 1; H.Dip.Ed., 5.

CANADIAN UNIVERSITIES

In *Nova Scotia*: ACADIA, DALHOUSIE, KING'S COLLEGE, ST. FRANCIS XAVIER. In *New Brunswick*: NEW BRUNSWICK, MOUNT ALLISON. In *Quebec*: BISHOP'S COLLEGE, LAVAL, MCGILL, MONTREAL. In *Ontario*: MCMASTER, OTTAWA, QUEEN'S, TORONTO, TRINITY COLLEGE, VICTORIA, WESTERN ONTARIO. *Western Provincial Univs.*: MANITOBA, SASKATCHEWAN, ALBERTA, BRITISH COLUMBIA.

GENERAL DESCRIPTION

[Contributed by A. Stanley Mackenzie, Ph.D., D.C.L., President of Dalhousie Univ., President for 1920 of the Conference of Canadian Univs. An account by President Walter C. Murray of the Univ. of Saskatchewan, of "University Development in Canada" is to be found in the Transactions of the Royal Society of Canada, Third Series, 1922, vol. xvi.]

IT is probably not true to say that Canada has evolved a distinctive type of Univ.; and yet Canadian higher institutions of learning differ in many ways from the corresponding institutions in the British Isles and in the United States. One might divide Canadian Univs. into groups, determined by the prototype after which each was consciously or unconsciously modelled. In the first group are those which followed closely the Oxford tradition — King's, New Brunswick, Bishop's, Toronto, and some of its federated colleges (University, Trinity, Wycliffe). The Univs. in the second group are those which modelled themselves on Edinburgh, viz. Dalhousie, McGill, Queen's. Laval in Quebec, Laval in Montreal (which has lately changed its name to that of the Univ. of Montreal), and Ottawa have followed closely the forms and tradition of France. The four western provincial Univs. of Manitoba, Saskatchewan, Alberta, and British Columbia, and especially the three last, bear a close resemblance to the State Univs. of the United States. The Univs. which have not been named are perhaps more free from direct imitation of older types.

As the years have gone by, all these institutions, while maintaining individuality and evidences of their original form, have tended to uniformity in many important regards. Thus, they all require four years for the Bachelor (Pass) degree in Arts or in Science. Again, they have a common standard of preliminary education for admission to the course leading to these degrees. This standard is that attained by a satisfactory completion of three years of a High School course superimposed on eight years in the common schools. This standard is called Junior matriculation. If a pupil has successfully completed the fourth year of the High School course in the proper subjects, or passes the equivalent Senior matriculation examination, he can enter the second year and complete the course for the degree in three years. This practically amounts to saying that High Schools or Collegiate Institutes

which have a fourth year course give in that year about the same work as is done in the first year of the Univ. course for the Pass degree. In Ontario the High School Course leading to Junior Matriculation standard covers four years instead of three.

JUNIOR MATRICULATION. Students can satisfy the Entrance requirements of the Univs. either by examination or on certificate from a standard High School or accredited Preparatory School or Collegiate Institute or School. Such certificate is, however, not accepted as such, but considered subject by subject; that is, it must show a Pass in the Required Subjects of matriculation. These required subjects differ somewhat from one Univ. to another. Practically all Univs. require for candidates for the B.A. degree the following six subjects: (1) English, (2) History, (3) Algebra (through quadratics), (4) Geometry (at least four books), (5) Latin, (6) a second foreign language. There is in nearly every Univ. a seventh subject; it is usually a science (in some cases specified, in others elective), but in many cases a third foreign language is accepted instead.

Where a course in Pure Science is given leading to the degree of B.Sc. the requirements are as above, except that the two foreign languages are French and German.

There is much more variation in the requirements for entrance to the courses in Applied Science, or Engineering; but the best schools of Applied Science require in addition to the requirements (1) to (4) of Arts, Advanced Algebra, Advanced Geometry, Trigonometry, Physics, Chemistry, and at least one foreign language.

The curriculum for students of Medicine has been undergoing a change in all the Canadian Schools. At least a year has been added to the length of the course at each Univ. In general the course of study requires 6 years. In Toronto Univ. these must be taken in the Medical School. In some of the other Univs. the 1st year may be taken in any recognized Arts College; in others the first 2 years (which are largely pure science) may be so taken. The grade of scholarship required as preliminary to this 6-year course at all the Schools is that of Senior Matricn., except at Queen's, where it is Junior Matricn., and at Montreal Univ., where it is the B.-ès-A.

There has been a similar advancement going on in the standard of preliminary education required of students seeking admission to the study of Law. At all the Schools the Law course proper extends over 3 years. Dalhousie, McGill, and Manitoba require 2 years of Arts before admission to this course; the other Law Schools require, in general, the equivalent of one year of Arts.

A year has been added to the standard of preliminary education required of students entering upon the study of Dentistry. It is now the equivalent of the first year of an Arts course. McGill has increased it to 2 years, and this standard may soon become general. The Univ. of Toronto requires only Pass Matriculation for admission to Dentistry, but prescribes a five-year course for the degree.

ARTS COURSE. Speaking very generally, one can say that about one-half of the course for the degree of B.A. is prescribed and the other

half elective; but these elective subjects are commonly to be distributed among certain broad groups of allied subjects in a specified way, varying with the individual Univs. The prescribed work includes English, History, two foreign languages, one of which is usually Latin (British Columbia and Manitoba require only one), Philosophy, Mathematics, and Science. In the case of the B Sc. degree in Pure Science the two foreign languages required are French and German.

A feature of Canadian Univs. which distinguishes them from the typical Univs. of the United States is the provision made for the ambitious student and the student who wishes to specialize during his course for the B.A. degree. This is accomplished by the provision of the system of Honour courses. In this system a student who shows the necessary aptitude is permitted to take special classes, which in some instances are in extension of the regular classes, and in other cases are restricted to Honour students. In some Univs. the Honour classes are confined to the third and fourth years of the course; in others, as in the case of Toronto, they are given in all four years, and there is also a special Honour matriculation. In general, also, the number of prescribed classes is reduced, so that the student not only goes more deeply into each subject, but specializes to a greater extent than the Pass man is allowed to do. On the completion of an Honour course the student receives a degree with Honours. No small measure of the academic success of Canadian students in post-graduation work in home and foreign Univs. is to be attributed to this system.

By a proper combination of studies a student can complete a combined course for the degree in Arts or Science and that in a professional faculty in a year (in some cases, two years) less than the sum of the years required for each.

Length of Session. The Canadian Univs. open about October 1, and close in May or early in June. The average length of the session is 32½ weeks for all faculties, except those of Medicine and Dentistry, which are 4 weeks longer. Of the 32½ weeks, 26 are given up to actual lecturing, and the remainder to vacations, examinations, and closing exercises.

Consolidation of the Colleges in the Maritime Provinces. During the last few years a great deal of attention and consideration has been given to this question, which in one form or another is a century-old problem (see article by Murray referred to above). It has come prominently to the fore now because of the impossibility of so many small institutions (mostly sectarian) in a region containing only a million people being able to keep pace with the financial demands of modern education. The Carnegie Foundation for the Advancement of Teaching was invited to send experts to make a survey of the situation. They did so, and made a report, in which they advised that all these institutions should move to Halifax, and join with Dalhousie, already there, in forming a strong central University. Each constituent was to maintain its name, identity, individuality, organization, and funds, but give up its examining and degree-granting powers (except in Divinity) to the Univ. The Colleges should not teach the scientific

subjects nor those subjects for which there would be a small demand, which should be given by the Univ. In general, the Colleges should restrict themselves to the Humanities. The Univ. would conduct all professional schools. The Colleges were to be residential. It will be seen that the scheme was something between that of Oxford and that of Toronto. It was a fair inference to be drawn from the report that, if the various institutions in question would get together, and the governments concerned make a grant-in-aid to the central Univ., the Carnegie Corporation of New York would give the scheme very generous aid. Representatives of the educational institutions and interests held many conferences and agreed upon a scheme of consolidation, and the Carnegie Corporation promised a gift of $3,000,000. At this stage the scheme was halted, for the time being at least, by the refusal in succession of the Univ. of New Brunswick (non-sectarian), St. Francis Xavier's College (Roman Catholic), and Acadia College (Baptist) to enter it. In the meantime, King's College (Anglican) has moved from Windsor to Halifax, and entered into a close association with Dalhousie Univ. (non-sectarian). The students of both institutions are taught as one body by the combined staffs, except in certain freshman classes (and in Divinity). King's holds in abeyance her degree-granting powers (except in Divinity), and the Univ. conducts all examns. and grants degrees. Provided King's raises the sum of $400,000 by July 1, 1926, for the erection of the necessary residential buildings, the Carnegie Corporation will provide $600,000 to be used as an endowment for the payment of an instructional staff for the combined students. There the matter stands at present. Mount Allison College (Methodist) will not come to a decision until the recently united Methodist, Presbyterian, and Congregational bodies in Canada have had time to give the matter the fullest consideration. The Roman Catholic dioceses outside of that of Antigonish, in which is St. Francis Xavier's College, have the matter under consideration. There is no degree-granting educational institution in the adjoining colony of Newfoundland, but the various interests there are very favourable toward the general scheme of a confederation of the educational forces of Eastern Canada. They have recently organized a Junior College at St. John's for the first two years of the work for the Arts degree. The Carnegie Corporation has promised a grant-in-aid for a period of five years.

The TENTH NATIONAL CONFERENCE OF CANADIAN UNIVERSITIES was held at Dalhousie University, Halifax, June 2-4, 1925. The subjects discussed were: The Arts Course, its purpose and essential elements, The relation of Oriental Students to the Canadian Universities, The Junior College in Canada and in the United States, Admission to the Universities, Student Wastage in Universities, Failures in the First Year, A Freshman Advisory Committee, The Teaching of Modern Languages in Canada, Opportunities in Canada for University Graduates —particularly those engaged in Scientific Work, The Management of University Residences, Publication of the Results of Research. The Executive Committee was authorized to appoint a delegate to the National Association of State Universities. It was agreed that in view

of the holding of the Congress of Universities of the Empire at Cambridge in 1926 the Conference should not meet again until 1927.

President for 1927—Principal Sir A. W. Currie. Secretary-Treasurer —Dean G. H. Ling.

Degrees in Divinity for Students belonging to the Anglican Church in Canada

The Church Universities and Theological Colleges in Canada having entered into an agreement to adopt a uniform standard for degrees in Divinity, all such degrees are now only conferred in accordance with Canon X of the General Synod of Canada, and only on examn. by a Joint Board, including the Archbishop of Rupert's Land (Chairman), and representatives of the Univs. of King's, Bishop's, and Trinity Colleges, Montreal Diocesan, Wycliffe (Toronto), Huron (London, Ont.), St. John's (Winnipeg), Emmanuel (Saskatoon), St. Chad's (Regina), Anglican Theol. Coll. of B.C.

Nova Scotia Technical College, Halifax

This institution represents the principal effort of the province in University training. It is supported entirely from provincial revenues. Through a co-operative agreement, a uniform matriculation and a uniform engineering course covering the general work of the freshman and sophomore years is carried out entirely in the Univs. of Acadia, Dalhousie, King's, Mount Allison, St. Francis Xavier, and St. Mary's College. On successful completion of this course, the student proceeds to the Technical College without examn. for the professional work of the last 2 of the 4 yrs.' course. Here the studies are differentiated and the student elects either Civ., Elec., Mech., or Mining Engineering. The degree given is that of B.Sc. The Technical Coll. confines its attention entirely to the work of the junr. and senr. yrs. It is equipped principally for teaching the engineering courses and commercial testing of industrial materials and natural resources, and incidentally for scientific research. Tuition fees: $75 p.a. The buildings and equipment represent a provincial investment of about $500,000. [*Contributed by the Department of Technical Educn., N.S.*]

Marine Biological Stations

Under the control of the Minister of Marine and Fisheries through the Biological Board of Canada, two Atlantic Stations at St. Andrews, N.B., and Halifax, N.S., and a Pacific Station at Nanaimo, B.C., are open to duly qualified and recommended university graduates from June to Sept. The Halifax Station, established in 1925 for educational and experimental work in connexion with fisheries, co-operates with Dalhousie Univ. and the Technical College. The more fundamental research is carried on at St. Andrews. Publications: Annual Prospectus and series of Reports, Bulletins, studies and popular leaflets. Directors: Prof. A. G. Huntsman of Toronto (Atlantic) and Dr. W. A. Clemens (Pacific).

The Carnegie Foundation for the Advancement of Teaching

The object of the Foundation, which was established in 1906 with resources which now amount to 29 million dollars, is to provide retiring allowances and pensions, and, "in general, to do and perform all things necessary to encourage, uphold, and dignify the profession of the teacher and the cause of higher

education." It operates both in the U.S.A. and in Canada. The following classes of persons are eligible for retiring allowances: (1) A person in an institution on the associated list who (*a*) is 65 years of age and has served not less than 15 years as professor, or not less than 25 years as instructor or as prof. and instr., or (*b*) has served 25 years as prof. or 30 years as instr. or as prof. and instr., and who is shown by medical examn. to be entirely unfitted by disability for continuing the work of teacher; (2) a widow who has for 10 years been the wife of any teacher of class (*a*) or (*b*). The direction of the Foundation is entrusted to a board of 25 trustees, mostly university and college presidents. The offices of the Foundation are at 522 Fifth Avenue, New York City.

The list of associated institutions includes BRITISH COLUMBIA, DALHOUSIE, MCGILL, QUEEN'S, and TORONTO. Up to June 1925, 1230 allowances had been granted, including 64 in Canada and 3 in Newfoundland.

In addition to its work in connexion with the payment of pensions the Board of Trustees has undertaken the issue of various publications and their free distribution. Among these is a bulletin on Higher Education in the *Maritime Provinces of Canada.*

NATIONAL COUNCIL OF EDUCATION

THE NATIONAL COUNCIL OF EDUCATION, Canada, was organized at a Conference on Education in relation to Citizenship held in Winnipeg in 1919. With the co-operation of Universities and Departments of Education the Council is developing a Bureau of Education, and has organized a system of National Lectureships whereby eminent lecturers are brought from Great Britain to Canada. The Bureau facilitates exchange of information between the provincial departments of Education, the diffusion in Canada of ideas and information from outside the Dominion and *vice versa.* Triennial Conferences on Education are held, the next of which will be in Montreal in 1926. The Executive Secretary's address is 607 Boyd Building, Winnipeg.

CANADIAN STUDENTS IN THE UNIVERSITIES OF THE UNITED KINGDOM, v. Appendix XXII.

SCIENTIFIC AND INDUSTRIAL RESEARCH, v. Appendix XXIV.

ACADIA UNIVERSITY, WOLFVILLE, NOVA SCOTIA

PRESIDENT—F. W. PATTERSON, D.D., LL.D.

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Perry, H. G., M.A. Harv.
Wetmore, R. H., M.A., Ph.D. Harv. Prof.

Chemistry
Hill, D. U., M.A., Ph.D. Yale Prof.

Classics
Thompson, W. H., jun., M.A., Ph.D. Yale Barss Prof.

Economic Science [Prof.
Balcom, A. B., B.Sc., M.A. Harv.

Education & Psychology [Instr.
Hancock, T. A., M.A., Ph.D. Clark

Engineering [I. Curry Prof.
Wheelock, F. E., M.A., Ph.D. Yale
Sutherland, A., B.Sc. Prof.

English Lang. and Lit.
Rhodenizer, V. B., M.A., Ph.D. Harv. Prof.
Logan, J. D., Ph.D. Harv. Spl. Lectr. in Canadian Lit.

Geology
Bancroft, M. F., M.A. Yale Prof.

German
Ross, Roy, M.A. Yale Prof.

History
Rogers, N. M'L., B.A., B.Litt., B.C.L. (Ox.) M. Curry Prof.
Milner, W., LL.D. Spl. Lectr. in Canadian Hist.

Library Science [Instr.
Ingraham, Mary Kinley, M.A.

Mathematics [White Prof.
Jeffery, R. L., M.A. Cornell

New Test. Lang. and Lit. [Prof.
De Wolfe, H. T., B.A., D.D., LL.D.

Old Test. Lang. and Lit.
Hutchins, W. N., M.A., Ph.D. Chic. G. P. Payzant Prof.

Osteology and Physiology
De Witt, C. E. A., B.A., M.D. McGill Instr.

Physical Training [Director.
Osborne, W. T., M.A. Corn.

Physics [Alumni Prof.
Haley, F. R., M.A. Harv.
Wheelock, F. E., B.A., Ph.D. Yale I. Curry Prof.

Romance Languages [Prof.
Tuller, A. P., M.A. Yale, Chicago

Theology and Philosophy [Prof.
Spidle, S., B.D., Ph.D. Clark
MacDonald, J. H., C.B.E., D.D. Prof. of Church Hist. and Bible Lit.

GENERAL INFORMATION (v. also p. 322).

Founded in 1838 by the N.S. Baptist Educational Society, Acadia College was incorporated in 1840 by Act of the N.S. Legislature, with the powers of a University. In 1896 an endowment of $100,000 for the Theol. Dept. was received under the will of G. P. Payzant. The Board of Governors is appointed by the Baptist Convention of the Maritime Provinces, but the students are subject to no religious tests.

LIBRARY: 45,000 vols. MUSEUMS: Biol., Ethnol., Geol., Hist. LABORATORIES: Biol., Chem., Geol., Physics, Engineering. OBSERVATORY: Meteor. and Astron.

DEPARTMENTS. Arts and Sciences, Theology, Applied Science, Household Economics, Music.

DEGREE COURSES. 4 yrs.—B.A., B.A. (Theol.), B.Sc., B.Sc. (Hd.Ec.); 3 yrs.—B.Mus.; 1 yr. (graduate study)—M.A., B.D. The B.Sc. Engineering courses enable graduates to enter the 3rd year classes of McGill Univ. and N.S. Tech. Coll. Some of the B.A. and B.Sc. courses enable graduates to enter the 2nd yr. of the Dalhousie Law School, Halifax, and the Med. Dept. of McGill Univ., respectively (v. pp. 326, 360).

FEES for tuition: in Arts and Sc. or Theol., $306; in Appl. Sc. (2 yrs.), $220. Lab. fees extra, about $30.

RESIDENCE. College hostels provide accommodation for 70 men and 65 women.

AFFILIATION, v. p. 360.

PUBLICATIONS. *Bulletin*, 25 cents p.a.; *Calendar*, number issued in July.

THE YEAR 1924–25

BENEFACTIONS. A total of $276,037·55, for new buildings and endowment.

NEW BUILDING. University Hall to replace building destroyed by fire in 1920—cost, finished and furnished, $435,000.

NEW COURSES leading to degrees B.Sc. (H.Ec.) and B.Mus. established.

HONORARY DEGREES. *M.A.*—A. L. Anderson, H. O. Dobson. *D.Sc.*—F. R. Haley. *D.D.*—G. R. Baker, G. W. Camp, A. K. de Blois, A. L. Huddleston. *LL.D.*—H. T. De Wolfe, W. R. Morse, B. Rand.

RESIGNATIONS. P. C. Young, to accept post in State Normal College, Louisiana, succeeded by T. A. Hancock from Clark Univ.; P. Rogers, to work at Cornell, succeeded by A. P. Tuller from Univ. of Chicago.

STUDENTS. Full-time, total 317, including 97 women; preparing for first degree, 310 (women—94); graduates, 7 (w.—3); resident in college or hostel, 155 (w.—85); from foreign countries, 11 (w.—6). Occasional, 18 (w.—17). DEGREES OBTAINED: B.A., 33; B.A. in Theol., 2; B.Sc., 4; M.A., 1; B.D., 1.

UNIVERSITY OF ALBERTA, EDMONTON

VISITOR—THE LIEUTENANT-GOVERNOR OF THE PROVINCE.

CHANCELLOR—Hon. CHARLES ALLAN STUART, B.A., LL.D. Tor.

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REGISTRAR—C. E. RACE, M.A., C.A., A.C.I.S.

LIBRARIAN—D. E. CAMERON, M.A. Edin.

PROFESSORS, LECTURERS, ETC.

Accountancy [Lectr.
Race, C. E., B.A. Tor., M.A., C.A.

Agricultural Engineering [Prof.
Smith, J. MacG., B.S.A. Man.

Agriculture : Field Husbandry
Newton, R., B.S.A. McG., M.Sc., Ph.D. Minn. Prof.
Fryer, J. R., M.A. Tor. Assoc. Prof.
Buckley, G. F. H., M.S. Calif., B.S.A. Asst. Prof.

Agriculture, History of
Howes, E. A., B.S.A. Tor. Dean of Fac. of Agric.

Agriculture : Horticulture
Harcourt, C., B.S.A. Tor. Lectr.

Agriculture : Soils
Wyatt, F. A., B.S.A. Utah, M.S., Ph.D. Ill. Prof.
Newton, J. D., B.S.A. McG, Ph.D. Calif. Assoc. Prof.

Animal Husbandry, v. also Dairying and Vet.
Sackville, J. P., B.S.A. Tor., M.S. Iowa Prof.
Bowstead, J. E., M.S.A. Wisc. Asst. Prof.
Sinclair, R. D., B.S.A. Asst. Prof.

Anatomy. [Prof.
Revell, D. G., B.A., M.B. Tor.
Shaner, R. F., Ph D. Harv. Assoc. Prof.
Greene, E., M.D., C.M. McG., F.R.C.S. Edin., F.A.C.S. Lectr.
Jackson, J. L., M.A., M.D., C.M. McG. Lectr.
Armour, J. C , M.D., C.M. McG. Instr.
5 Demrs.

Architecture
Burgess, C. S., A.R I.B.A. Prof.

Bacteriology, v. Med.

Bio-Chemistry
Collip, J. B., M.A., Ph.D. Tor., D.Sc. Prof.
Scott, J. W., M.D. McG. Lectr.

Botany [Prof.
Lewis, F. J., D.Sc. Liv., F.L.S.
Moss, E. H., M.A., Ph.D. Tor. Lectr.
Dowding, E. S., M.Sc. Instr.

Chemistry
Lehmann, A. L. F., B.S.A. Tor., Ph.D. Leip. Prof.
Walker, O. J., B.A. Sask., M.A. Harv., Ph.D. McG. Assoc. Prof.
Sandin, R., Ph.D. Chic., M.Sc. Asst. Prof.
Boomer, E. H., B.A. (B.C.), M.A., Ph.D. McG. Lectr.

Classics
Alexander, W. H., M.A. Tor., Ph.D. Calif. Prof.
Misener, Geneva, M.A. Qu , Ph.D. Chic. Prof.
Hardy, W. G., M.A. Tor., Ph.D. Chic. Assoc. Prof.
Gold, Margaret, M.A. Instr.

Dairying
Marker, C. P., LL.D. Prof.

Dentistry [Lectr. (Op. D.).
Bulyea, H. E., D.M.D. Harv.
Gilchrist, H. A., D.D.S. Northwn. Instr. (Prosth. D.).

Drawing & Descr. Geom.
Adam, J., M.A. Assoc. Prof.

Economics, v. Pol. Econ.

Engineering, Civil & Municipal
Wilson, R. S. L., B.Sc. McG. Prof.
Robb, C. A., B.Sc. McG., M.S. Mass. Inst. Tech. Prof.
Morrison, I. F., S.B. M.I.T. Prof.
Webb, H. R., M.Sc. Lectr.

Engineering, Electrical
MacLeod, H. J., B.Sc. McG., Ph.D. Harv., M.Sc. Assoc. Prof.
Morgan, S. C., B.Sc. Qu., M.Sc. Asst. Prof.

English
Broadus, E. K., M.A. Chic., Ph.D. Harv. Prof.
Gordon, R. K., B.A. Ox., M.A., Ph.D. Tor. Prof.
Jones, J. T., B.A. Lectr.
Riddlehaugh, G., B.A. (B.C.) Instr.

Entomology [Prof.
Strickland, E. H., M.Sc. Harv.

French and Ger., v. Mod. Langs.

Geology
Allan, J. A., M.Sc. McG., Ph.D. Mass. Inst. Tech. Prof.
Warren, P. S., B.A., Ph.D. Tor., A.R.C.S. Lond. Assoc. Prof.
Rutherford, R. L., Ph.D. Wisc., M.Sc. Lectr.
1 Demr.

History [Prof.
Burt, A. L., B.A. Tor., M.A. Ox.
Long, M. H., B.A. McM., M.A. Ox. Assoc. Prof.

Household Economics
Patrick, Mabel, B.A. Tor., M.A. Col. Director, Lectr.
Deadman, Edith, B.A. Tor. Lectr.

Law
Weir, J. A., B.A. Ox., LL.B. Sask. Prof. (Sec. to Faculty).
Ford, F., D.C.L. Tor., K.C. Prof.
Parlee, H. H., B.A. Mt.A., B.C.L. Dal., K.C. Hon. Prof.
3 Sessional Lectrs., 1 Instr.

Mathematics
Sheldon, E. W., M.A. McG., Ph.D. Yale Prof.
Campbell, J. W., M.A. Qu., Ph.D. Chic. Prof.
Cook, A. J., M.A. Harv., B.Sc. Lectr.

Medicine, v. *infra*

Mining Engineering
Pitcher, N. C., B.Sc. McG. Prof.
Cameron, A. E., M.Sc. McG., D.Sc. (M.I.T.) Assoc. Prof.

Modern Languages
Kerr, W. A. R., M.A. Tor., Ph.D. Harv., Off. de l'Inst. Pub. (France) Prof. and Dean of Fac. (Arts and Sc.).
Coar, J. F., M.A., Ph.D. Harv. Prof. (German).
Sonet, E., B. ès L. Lyons, M.A. Prof. (French).
Pelluet, A. P. Asst. Prof. (French).
Owen, F., M.A. Tor., Ph.D. Chic. Asst. Prof. (Ger.).
de Savoye, H., B.ès L. Paris, LL.B. Lectr. (French).

Philosophy
MacEachran, J. M., M.A. Qu., Ph.D. Leip. Prof.
MacDonald, J., M.A., D.Litt. Edin. Assoc. Prof.
Lazerte, M. E., B.A. Tor., M.A. Lectr.

Physics
Boyle, R. W., M.A., Ph.D. McG. Prof. and Dean of Fac. (App. Sc.).
Smith, S., M.A., B.Sc. Ox. Assoc. Prof.
Lang, R. J., B.A. McM., Ph.D. Tor. Asst. Prof.
Nichols, L. H., B.A. McG., M.A. Lectr.
Taylor, G. B., M.Sc. Instr.

Physiology and Pharmacology
Downs, A. W., M.A. Phila., M.D. Penns., D.Sc. McG. Prof.
Eddy, N. B., M.D. Corn. Asst. Prof.
Quigley, J. P., B.Sc. Syrac., M.Sc. Minn. Lectr.
1 Demr.

Political Economy
MacGibbon, D. A., M.A. McM., Ph.D. Chic. Prof.
McGoun, A. F., B.A., B.C.L. McG., M.A Harv. Asst. Prof.
Drummond, W. M., B.A. Qu., M.A. Lectr.

Veterinary Science
Talbot, P. R., V.S. Tor., M.D.V. Chic. Specl. Lectr.

Zoology [Assoc. Prof.
Rowan, W., M.Sc. Lond., F.Z.S.
Hughes, Winifred, M.A. Sask. Instr.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology and Hygiene
Rankin, A. C., C.M.G., M.D., C.M., D.P.H. McG., L.R.C.P., M.R.C.S. Prof. and Dean of Fac.
Shaw, R. M., B.A., M.D., C.M., D.P.H. McG. Asst. Prof.

Dermatology [Lectr.
Orr, H., O B.E., M.B., D.P.H. Tor.

Gynæcology and Obstetrics
Conn, L. C., M.D., C.M. Mc.G., F.A.C.S. Prof.
Harrison, J. D., M.A. N.B., M.D., C.M. McG., F.A.C.S. Assoc. Prof.
Baker, J. O., M.D., C.M. Qu. Lectr.
Holmes, G. U., M.B. Tor. Instr.

Medicine and Clinical Medicine
Pope, E. L., B.A. Qu., M.D., C.M. McG., M.R.C.S., M.R.C.P. Prof.
Jamieson, H. C., M.B. Tor. Assoc. Prof.
Bell, I. R., B.A., M.B. Tor. Asst. Prof. (Therap.).
Hurlburt, C. W., M.B. Tor. Lectr.
Scott, W. H., M.D., C.M. McG. Lectr.
4 Instrs.

Ophthalmology [Lectr.
Wells, R. B., M.B. Tor., F.A.C.S.
Jamieson, C. V., M.B. Tor. Lectr.

Pathology
Ower, J. J., B.A., M.D., C.M. McG., Prof., and Provincial Serologist.
Vango, H. M., M.D., C.M. McG. Lectr.
1 Demr.

Pediatrics [Lectr.
Leitch, D. B., B.A., M.B. Tor.

Pharmacology, v. Physiol.

Pharmacy and Mat. Med.
Dunn, F. A. S., Ph.C. Tor., M.P.S. Gr. Bn. Prof.
Matthews, A. W., B.Sc. Phm. Lectr.

Public Health [Assoc. Prof.
Laidlaw, W. C., M.B. Tor.

Surgery and Clinical Surgery
Mewburn, F. H., M.D., C.M., LL.D. McG. Prof.
Gray, G. C., M.B. Tor., F.A.C.S. Asst. Prof.
Munroe, A. R., M.D., C.M. McG., F.A.C.S. Asst. Prof.
Wilson, W. A., M.D., C.M. McG., F.A.C.S. Asst. Prof.

Blais, A., M.D. Lav. Asst. Prof.
Hepburn, H. H., M.D., C.M. McG., F.R.C.S. Edin., F.A.C.S. Asst. Prof.
Mewburn, F. H. H., B.Sc., M.D. C.M. McG. Lectr. (*Orthop.*).
Smith, E. C., M.D., C.M. McG. Lectr.
5 Instrs.

Industrial Laboratories

Kelso, J. A., M.Sc. Qu. Director.
Scroggie, A. G., B.Sc. Asst.

Industrial Research Profs.

Stansfield, E., M.Sc. Manc. (Fuels.).
Clark, K. A., M.A. McM., Ph.D. Ill. (Road Materials.)

Physical Education

McLeod, H. J. Acting Director.
Bakewell, E., B.A. Asst. Dir.

Correspondence Courses

MacKenzie, D. S. Director.

Department of Extension

Ottewell, A. E., M.A. Director.
Corbett, E. A., M.A. McG. Secy.
Montgomery, Jessie, B.A. Libn.

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(2) ROBERTSON THEOLOGICAL COLLEGE (Presbyterian), Edmonton. Chairman of Board of Management—W. Short, K.C. Principal—J. M. Millar, M.A., B.D., D.D., Prof. of Engl. Bible, etc. Head of Extra-mural Dept. and Lectr.—A. T. Barnard, M.A., B.D.

(3) ST. AIDAN'S COLLEGE and Hostel (C. of E.), Edmonton—affiliated, 1919. Warden—Rt. Rev. Bishop Gray.

(1) and (2) co-operate, Profs. of both instructing joint classes.

GENERAL INFORMATION (v. also p. 322)

Telegraphic address—VERA (A.B.C. Code).

The University, created by act of the Provincial Legislature, 1906, originally consisted of a Chancellor, Vice-Chancellor, Senate, and Convocation. By amendment the office of President was created 1907, and a Board of Governors 1910, the latter being given financial and administrative control, while the Senate was restricted to educational supervision. Student residences, Athabasca, Assiniboia, and Pembina Halls, were opened in 1911, 1912, and 1914 respectively, while the main teaching and administrative building was completed in 1915. Classes began September 1908. In 1912 extension work, conducted from the beginning, was departmentalized under a Secretary. In the same year a Faculty of Law was created. Subsequent expansion involved the establishment of Faculties of Applied Science and of Medicine, 1913; Faculty of Agriculture, 1915; courses in Pharmacy and in Dentistry, 1914 and 1917 respectively; in Household Economics, 1918; in Commerce and in Public Health Nursing, 1921. In 1919–20 the extraordinary increase in the number of medical students necessitated the construction of a new Medical

Building. In the same session the creation of the office of Director of the School of Pharmacy completed the evolution of the School from a Department under the Faculty of Medicine to an independent unit. The Provincial Legislature has established a close relationship between the Univ. and the Professions, and the Senate now has jurisdiction over the educational standards of Architects, Chartered Accountants, Dentists, Engineers, Land Surveyors, Lawyers, Pharmacists, Physicians and Surgeons, Registered Nurses, Optometrists, and Veterinary Surgeons.

The University grounds, 637 acres, beautifully situated on the wooded south bank of the Saskatchewan, include provision for the accommodation of affiliated colleges and afford ample room for expansion. Edmonton is a city of about 65,000 inhabitants, the capital of the Province of Alberta (area 250,000 sq. m.; pop. 600,000). The chief activities of the city are wholesaling, coal-mining, and meat-packing, while the main interests of the Province are agriculture and coal-mining. For 2000 miles to the north of Edmonton, and naturally tributary to it, lie the valleys of the Athabasca, the Peace, and the Mackenzie Rivers. The fur trade is still the chief activity of this vast region, though on the Peace River a rapid agricultural growth is in progress, and its great resources in coal, oil, water-power, natural gas, lumber, asphalt, etc., await development.

LIBRARY, 26,500 vols. LABORATORIES for all scientific courses; museum; herbarium; farm; agricultural experimental plots.

FACULTIES. Arts and Sciences (including Household Economics, Pharmacy and Commerce); Applied Science (including Architecture); Medicine (including Dentistry and Nursing); Law; Agriculture.

MATRICULATION examns. are conducted in April, June, and Sept., under control of High School and Univ. Matricn. Examns. Board of the Province. Equivalent examns. by recognized authorities in the British Dominions are accepted *pro tanto* for admission.

DEGREE COURSES. 4 yrs.—B.A., B.Sc. in Arts, B.Com., B.Sc. in Household Ec., in Engin. (Civ., Elec., or Mining), in Archit., or in Pharmacy, LL.B., D.D.S.; 3 yrs. (after qualifying in a Provincial Sch. of Agr.)—B.H.Ec. (in Household Econ.), B.Sc. in Agric.; 6 yrs.—M.D.; 5 yrs.—B.Sc. in Nursing. Combined B.A. and B.Sc. in Arts—6 yrs.; B.A. and B.Sc. in Applied Sc.—6 yrs.; B.A. and M.D.—8 yrs.; B.A. and LL.B.—6 yrs. (v. also pp. 106, 276, 360). The Agric. course is preceded by preliminary training at one of the Provincial Agric. Schools.

A Bachelor may obtain the M.A. or M.Sc. by 1 yr. of advanced study or investigation or the B.Ed. by 2 yrs. of advanced study. The B.D. is open to B.A. students of affiliated Colls. on completion of approved courses. The LL.D. is honorary.

OTHER COURSES: For Licence in Pharmacy; Correspondence Courses for Teachers (Senr. Matricn. subjects); Summer Session in co-operation with the Summer School for Teachers conducted by the Provincial Dept. of Educn.; 3 mos.' course in P.H. Nursing for Registered nurses; Provincial Dairy School short courses; 3 yrs.' course for qualification of Regd. Nurse.

A system of EXCHANGE LECTURES is carried on in co-operation with Manit. and Sask.

FEES, tuition per session: Arts (including 4 yrs.' degree courses in Pharm., Com. and Household Econ.), $60 to $70; Appl. Sc., $60 to $110; Law, $60 to $85; Med., $120 to $180; Dent., $120 to $210; Agric. (including 3 yrs.' course Household Econ.), $50 to $60. Students' Union, $7; Med. Service, $5.

RESIDENCE, ETC. 4 Halls of residence (including 1 belonging to an affiliated Coll.), with accommodation for 525. Fees for room and board for the session, $259; board only, $25 per month. Social life is under supervision of Provost, a Univ. officer. All undergraduates are members of Students' Union.

UNIVERSITY EXTENSION work includes lectures at local centres, travelling and packet libraries, and lantern slide and cinema services.

PUBLICATIONS. *Calendar* (June); *Press Bulletin*, weekly, by Dept. of Extension; *The Trail*, quarterly, by Alumni Assocn.; *The Gateway*, weekly, *The Green and Gold*, annually, by students.

THE YEAR 1924–25

HONORARY DEGREE. *LL.D.*—The Hon. Sir F. W. G. Haultain. OTHER DEGREES CONFERRED: B.A., men 22, women 18; B.Com., m. 7; B.Sc. in Arts, m. 10, w. 2; in H.Ec., w. 6; in Pharm., m. 2, w. 3; in Engin. m. 11 (including Mining E., 3); in Agr., m. 19; LL.B., m. 17, w.1; M.D., m. 10, w. 1; M.A., m. 9, w. 9; M.Sc. in Arts, m. 2, w. 1; M.Sc. in Agr., m. 4. Ad eundem degrees, 16. Licences to practise Accountancy, 5; Nursing, 59; Optometry, 3.

STUDENTS. Total, 1354 (including 434 women). Arts and Sc., 746; App. Sc., 110; Med. and Dent., 220; Law, 73; Agric., 163; Phm., 40; Correspondence students, 81; Summer School, 109; School of Nursing, 34; B.D., 2.

BENEFACTIONS. The Bursary of 7000 f., gift of the French Government for study in France, was increased to 10,000 f. $300 from the C.P.S. of Alberta for Library. Large donations from many sources to the Geological Museum, and from the Dominion Dept. of Mines a model of the McMurray Tar Sands Area to the Alberta Research Laboratories.

EXTENSION WORK. Lantern slides sent out, 1825; films, 409 sets; lectures, 325; travelling libraries, 245; University Week for Farm Young People.

UNIVERSITY OF BISHOP'S COLLEGE, LENNOXVILLE, QUEBEC

CHANCELLOR—.....

VICE-CHANCELLOR—Rev. A. H. McGREER, O.B.E., M.A Ox., D.D., Principal of the College and Dean of Arts.

REGISTRAR—Capt. J. C. STEWART, Bursar and Secy. of the College.

PROFESSORS AND LECTURERS

Smith, Rocksborough R., M.A. Camb , B.A. Lond., D.D., Harrold Prof. of Divinity, Dean of Divinity.

Boothroyd, E. E., M.A. Camb., Prof. of History.

Burt, H. C , M.A., T.C. Tor., Prof. of Philos. and Econ., Lectr. in Church Hist.

Call, F. O., M.A., Prof. of English and Mod. Langs , and Librarian.

Kuehner, A. L., M.A. Queen's, Lectr. in Natural Science.

Owen, E., B.A. Oxon., Lectr. in Classics.

Breuil, A., Lectr. in French and German.

Richardson, A. V., M.A. Camb., Prof. of Maths.

Vial, F. G., M.A., B.D., Warden of the Divinity House, Mountain Prof. of Past. Theol.

GENERAL INFORMATION (v. also pp. 322, 326)

The College, founded in 1843, was in 1853 by Royal Charter constituted a University with power to confer degrees. It is administered by a Corporation consisting of the Anglican Bishops of the Province and Trustees and Council appointed by them jointly. The Bishops of Montreal and Quebec are President and Vice-President respectively of the Corporation and Visitors of the College.

The College provides ordinary and Honours courses for the B.A. degree, covering 3 yrs., and a 2 yrs.' course for the L.S.T. Divinity is a compulsory subject in each of the years of the ordinary course. Terms kept in other Univs. may be counted up to 2 yrs. Clergymen of the Dioceses of Quebec and Montreal may proceed to the B.A. by examns. without residence if of 6 yrs.' standing, and on a reduced period (1 or 2 yrs.) if of 4 or 2 yrs.' standing.

Examns. are conducted for degrees in Music.

FEES. For tuition, $100 p.a.; board and furnished lodging with heating and lighting, $325 p.a.

THE YEAR 1924–25. *Number of Students*: Divinity, 20; Arts, 99 (including 31 women). *Degrees* (1924): B.A., 20; M.A., 3; Mus.Bac., 3; L.S.T., 5. Hon. D.C.L.—Gen. Sir Richard E. W. Turner, V.C.; Canon A. P. Shatford; R. V. Harris.

THE UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER

VISITOR—THE LIEUT.-GOVERNOR OF THE PROVINCE.

CHANCELLOR—R. E. MCKECHNIE, M.D., C.M., F.A.C.S., LL.D.

PRESIDENT—LEONARD S. KLINCK, B.S.A. Tor., M.S.A., D.Sc. Iowa S.C.

REGISTRAR—S. W. MATHEWS, M.A. Qu.

LIBRARIAN—J. RIDINGTON.

PROFESSORS, LECTURERS, ETC.

Agriculture, v. *infra*

Bacteriology

Hill, H. W., M.B., M.D., D.P.H. Tor. Prof.*
Wilson, Freda L., M.A. Instr.
1 Asst.

Botany

Hutchinson, A. H., M.A. McM., Ph.D. Chic. Prof.*
Davidson, J., F.L.S. Asst. Prof.
Dickson, Frank, B.A. Qu. Asst. Prof.
3 Assts.

Chemistry

Archibald, E. H., B.Sc. Dal., A.M., Ph.D. Harv. Prof.*
Clark, R. H., M.A. Tor., Ph.D. Leip. Prof. (Organic C.).
Seyer, W. F., B.A., M.Sc. Alb., Ph.D. McG. Assoc. Prof.
Marshall, M. J., M.Sc. McG., Ph.D. Mass. Inst. Tech. Asst. Prof.
Allardyce, J., M.A. Instr.
Wright, C. A. H., Ph.D. McG., B.A., M.Sc. Lectr.
5 Assts.

Classics [Prof.*
Robertson, L. F., M.A. McG.
Todd, O. J., Ph.D. Harv. Prof. of Greek.
Logan, H. T., B.A. McG., M.A. Ox. Assoc. Prof.
1 Asst.

Dairying, v. Agric.

Economics, Sociology, & Polit. Sc.

Boggs, T. H., B.A. Ac., M.A., Ph.D. Yale Prof.*
Angus, H. F., B.A. McG., B.C.L., M.A. Ox. Assoc. Prof.
Beckett, S. E., M.A. Qu. Asst. Prof.
1 Asst.

Education, v. Philos.

Engineering, Civil, & Surveying

Duckering, W. E., A.B., B.S. in C.E., C.E. Wash. Prof.*
Matheson, E. G., B.A.Sc. McG., M.E.I.C., M.Am.S.C.E. Assoc. Prof.
Powell, W. H., B.Sc. McG. Lectr.
Lighthall, A., B.Sc. McG. Instr.
Wilkin, F. A., B.A.Sc. McG. Instr.
1 Asst.

Engineering, Mech. & Elec.

Vickers, H., M.E. Liverpool, M.Sc., Ph.D. Birm. Prof.*
Letson, H. F. G., B.Sc., Ph.D. (Eng.) Lond. Asst. Prof.
Archibald, H. P., B.A.Sc. McG. Instr.

Head of Department.

Coles, E. M., B.A.Sc. Instr.
6 Assts.

English
Sedgewick, G. G., B.A. Dal., Ph.D. Harv. Prof.*
MacDonald, W. L., B.A. Tor., M.A. Wisc., Ph.D. Harv. Assoc. Prof.
Wood, F. G. C., B.A. McG., A.M. Harv. Assoc. Prof.
Larsen, Thorleif, M.A. Tor., B.A. Ox. Asst. Prof.
Walker, F. C., B.A. U.N.B., Ph.D. Harv. Asst. Prof.
Bollert, Miss M. L., M.A. Tor., A.M. Col.‡ Asst. Prof.
Wilcox, F. H., A.B , Ph.D. Calif. Asst. Prof.
4 Assts.

Forestry [Prof.*
Christie, H. R., B.Sc.F. Tor.
Knapp, F. M., B.S.F. Syracuse, M.S.F. Wash. Asst. Prof.

French, v. Mod. Langs.

Geology and Geography
Brock, R. W., M.A., LL.D. Qu., F.G.S.† Prof.*
Schofield, S. J., B.Sc. Qu., Ph.D. Mass. Inst. Tech., F.G.S.A. Prof.
Uglow, W. L., M.A. Qu., B.Sc. Sch. Mi. Kingston, M.S., Ph.D. Wisc. Prof. of Mineralogy, etc.
Williams, M. Y., B.Sc. Qu., Ph.D. Yale Prof. of Palæont.
Burwash, E. M., B.A. Tor., M.A., B.D. Vict., Ph.D. Tor. and Chic. Lectr.

History [Prof.*
Eastman, M., B.A. Tor., Ph.D. Col.
Sage, W. N., B.A. Tor., M.A. Ox. Assoc. Prof.
Soward, F. H., B.A. Tor., B.Litt. Ox. Instr.
Keenleyside, H. Ll., Ph.D. Clark, B.A. Lectr.
1 Asst.

Horticulture, v. Agr.

Mathematics
Buchanan, D., M.A. McM., Ph.D. Chic. Prof.*
Dederick, L. S., A.B. Kenyon, A.M., Ph.D. Harv. Prof.
Robinson, G. E., B.A. Dal. Assoc. Prof.
Jordan, E. E., M.A. Dal. Assoc. Prof.
Richardson, L., B.Sc.Lond. Asst. Prof.
Hartley, B. S., M.A. Camb. Asst. Prof.
2 Assts.

Mining and Metallurgy
Turnbull, J. M., B.A.Sc. McG. Prof.*
Thomson, H. N., B.Sc. McG. Prof. of Met.
Gillies, G. A., M.Sc. McG. Assoc. Prof. of Mi.

Modern Languages
Ashton, H., M.A. Camb., D.Lett. Univ. Paris, D.Litt. Birm., O.I.P. Prof. of French.*
Clark, A. F. B., B.A. Tor., Ph.D. Harv. Assoc. Prof. (French).
MacInnes, Isabel, M.A. Qu. Asst. Prof.
Chodat, H., M.A. McG. and Harv. Asst. Prof. (French).
Greig, Janet, B.A. Qu. Instr. (French).
3 Assts. in French.

Nursing and Health [Prof.*
Hill, H. W. (v. Bacteriology)
Gray, Miss M. F. Asst. Prof.
Cumming, Alison, B.A. Dal., M.D., C.M. McG. Lectr.
Hodgins, Lyall, M.B. Tor. Lectr.

Philosophy
Coleman, H. T. J., B.A. Tor., Ph.D. Col.† Prof.*
Henderson, J., M.A. Glas. Assoc. Prof.

* Head of Department. † Dean of Faculty. ‡ Dean of Women.

Weir, G. W., B.A. McG., M.A. Sask., D.Pæd. Queen's Prof. of *Education*.

Physics

Hebb, T. C., M.A., B.Sc. Dal., Ph.D. Chic. Prof.*

Davidson, J. G., B.A. Tor., Ph.D. Calif. Assoc. Prof.

Hennings, A. E., M.A. Lake Forest Coll., Ill., Ph.D. Chic. Assoc. Prof.

Shrum, G. M., B.A., M.A., Ph.D. Tor. Asst. Prof.

1 Asst.

Zoology

Fraser, C. McL., M.A. Tor., Ph.D. Iowa Prof.*

Spencer, G. J., B.S.A. Tor., M.Sc. Illinois Asst. Prof.

1 Asst.

Agriculture

Agronomy

Boving, P. A., Cand. Phil. and Agr. (Sweden). Prof.*

Moe, G. G., B.S.A., M.Sc. McG. Assoc. Prof.

Laird, D. G., B.S.A. Tor., M.S. Wisc. Asst. Prof.

1 Asst.

Animal Husbandry

King, H. M., B.S.A. Tor. Prof.*

Davis, R. L., B.S.A. Mont., M.S.A. Iowa S.C. Asst. Prof.

Hare, H. R., B.S.A. Tor. Asst. Prof.

1 Asst.

Jervis, J. G., V.S. Ont. Vet. Col., B.V.Sc. Tor. Lectr. in Vet. Sc.

Dairying

Sadler, W., B.S.A., M.Sc. McG., N.D.D. (Reading) Prof.*

Golding, N. S., N.D.D., B.S.A. Tor. Asst. Prof.

1 Asst.

Horticulture

Clement, F. M., B.S.A. Tor., M.A. Wisc.† Prof.*

Barss, A. F., A B. Roch., B.S.Agr. Corn., M.S. Oreg. Ag. Coll. Assoc. Prof.

Buck, F. E., B.S.A. McG. Asst. Prof.

1 Asst.

Poultry Husbandry

Lloyd, E. A., B.S.A. Sask. Prof.*

Asmundson, V. S., B.S.A. Sask., M.S.A. Corn. Asst. Prof.

1 Asst.

* Head of Department.

† Dean of Faculty.

AFFILIATED COLLEGES

VICTORIA COLLEGE, Victoria. Affiliated, 1920, for 1st and 2nd years in Arts. Principal—E. B. Paul, M.A. Aberd., Assoc. Prof. of *Classics*. Other Profs.—E. H. Russell, B.A. Qu., Registrar and Assoc. Prof. of *Maths.*; P. H. Elliot, M.Sc. McG., Assoc. Prof. of *Science*; Jeanette A. Cann, B.L. Dal., Asst. Prof. of *Engl.* and *Philos.*; Mme. E. Sanderson-Mongin, Asst. Prof. of *French*.

WESTMINSTER HALL, Vancouver (Theological)—W. H. Smith, M.A., Ph.D., D.D., and THE ANGLICAN THEOLOGICAL COLLEGE OF BRITISH COLUMBIA, Vancouver—Rev. W. H. Vance, M.A., both affiliated in 1922.

RYERSON COLLEGE, Vancouver (Theological)—Rev. J. G. Brown, M.A., affiliated in 1924.

GENERAL INFORMATION (v. also p. 322)

Telegraphic Address—UBRICO.

An Act of the Provincial Legislature was passed in 1890 establishing a University of British Columbia, but it lapsed in 1891. Vancouver High School

was affiliated to McGill for the first year in Arts under the name of Vancouver College in 1899. In 1902 Victoria High School was similarly affiliated as Victoria College. In 1906 the Royal Institution for the Advancement of Learning of B.C. was incorporated, and established the McGill Univ. Coll. of B.C., taking over, by agreement, the Arts work of Vancouver College (extended in 1908 to include the 3rd yr. in Arts), and adding 2 yrs. of Applied Science. In 1907 Victoria College was incorporated in the Univ. Coll. The connexion with McGill was brought to a close in 1915, when the University of British Columbia, incorporated by an Act of 1908, and endowed with 2,000,000 acres of land, was opened, with provision for a complete course in Arts and 3 yrs. in Applied Science. In 1920 all lands in the Province which had been set aside for higher education reverted to the Provincial Government, but it was arranged that the net proceeds from the sale of lots or lands in an area of 3000 acres at Point Grey should be paid into a "University Endowment Account." The University site consists of 548 acres on the headland of Point Grey, 300 feet above the sea. Here a group of buildings constructed at a cost of nearly $2,000,000 was opened in Oct. 1925.

The Board of Governors consists of the Chancellor, elected by Convocation, President, and 9 nominees of the Lieut.-Govr. in Council. The Senate consists of the Minister of Educn., Chancellor, President (as Chairman), Deans, and 2 Profs. of each Faculty, 3 nominees of the Lieut.-Govr. in Council, Supt. of Educn., principals of normal schools, one member elected by high school principals and assts., one by Provl. Teachers' Inst., one by each affiliated Coll. or School in the Province, 15 by Convocation.

The LIBRARY has nearly 54,000 vols. and over 10,000 pamphlets, and regularly receives 450 periodicals. LABORATORIES available for all courses. A Forest Products Lab. (with two Olsen Universal Testing Machines of 200,000 and 30,000 lb. capacity respectively and one Hatt-Turner Impact Testing Machine) was established in 1918 by the Forestry branch of the Dept. of the Interior as a permanent branch of the F.P. Labs. of Canada. HERBARIUM, 16,000 sheets native flora, 200 water colours B.C. Fungi. BOTANICAL GARDENS, Arboretum and economic section, 5 acres.

MATRICULATION examns., Junior and Senior, are arranged by the High School and Univ. Matricn. Board of the Province, consisting of members appointed by the Dept. of Education and by the Univ. Every student is submitted to a physical examn. on entrance.

DEGREE COURSES. B.A., 4 yrs. (3 from Senior matricn.). B.A.Sc. in Applied Science, 4 yrs. (following 1st yr. in Arts or Senr. matricn.). A degree course in nursing covers 5 yrs., including 2 yrs. of hospl. training. B.S.A., 4 yrs. from Junr. matricn. Double course, B.A. and B.A.Sc., 6 yrs. Courses for the M.A., M.A.Sc., and M.S.A. SHORT COURSES in Mining, 8 weeks, Jan.-March; in Agric. at the Univ. and elsewhere. Evening courses, with summer excursions, in Botany. Summer courses.

SUMMER SESSION. In 1922 the summer school for teachers became the summer session. Teachers and others with full Matricn. standing may pursue Univ. courses and receive credit therefor towards the B.A. degree. As yet courses beyond those of the first two years are not offered.

FEES, inclusive, $100-$150 per session. Graduation, $20.

SCHOLARSHIPS FOR GRADUATES. $200 awardable to graduate for further studies; three of $100, one being for Applied Science and one for Canadian History; $1200 p.a. for 3 yrs. for study in France.

RESIDENCE. Board and lodging in vicinity of the College from $40 to $50 p.m.

UNIVERSITY EXTENSION. Numerous lectures have been given under Univ. auspices in different centres in the province, but adult education has not yet been given the status of a Department. The selection of speakers and of subjects is made by a Standing Committee on Univ. Extension, which provides series of connected lectures throughout the winter. Short courses of 4 days' duration have been conducted for a number of years with marked success. Present indications are that 3-yr. tutorial classes will not be organized in the Univ. for some time. The *Vancouver Institute* co-ordinates efforts of various organizations in the field of adult education.

PUBLICATION. *Calendar* (April).

THE YEAR 1924–25

The new buildings at Point Grey, three permanent and nine semi-permanent, were completed. They were opened on Oct. 16, 1925, by Sir Arthur Currie, Principal of McGill Univ. *Students*: Total 1451, including 627 women; graduate students in Arts and Sc., 35 (women—11); Applied Sc., 7; Agric., 4; Teacher Training, 53 (w.—34); other students in Arts and Sc., 1084 (w.—542); Applied Sc., 213 (w.—36 in nursing); Agric., 55 (w.—4). *Degrees granted*: B.A., 155; B.A.Sc., 38; B.S.A., 19; M.A., 11; M.A.Sc., 7; M.S.A., 4.

DALHOUSIE UNIVERSITY, HALIFAX, NOVA SCOTIA

CHAIRMAN OF THE BOARD OF GOVERNORS—GEORGE S. CAMPBELL, LL.D.

PRESIDENT OF THE UNIVERSITY—A. STANLEY MACKENZIE, Ph.D., D.C.L., LL.D.

REGISTRAR—Prof. M. MACNEILL, M.A.

LIBRARIAN—Prof. A. MACMECHAN.

PROFESSORS, LECTURERS, ETC.

Anatomy [Campbell Prof.
Cameron, J., M.D. Edin., D.Sc. St. And., M.R.C.S.

Demrs.:
Curry, W. A., M.D., C.M. McG., F.R.C.S. Eng.
Grant, G. W., M.B. Edin., B.A.

Mader, V. O., M.D., C.M. McG.

Archæology
Falconer, J. W., M.A. Edin., D.D. Knox. Lectr.

Biblical Literature [Lectr.
Kent, H. A., D.D. Mont., M.A.

Biology
Gowanloch, J. N., B.A., B.Sc. Man. Assoc. Prof.
Bell, H. P., Ph.D. Tor., M.Sc. Assoc. Prof.

Chemistry
McIntosh, D., A.M. Corn., D.Sc. McG. Research Prof. and Head of Dept.
Nickerson, C. B., M.A. Clark Prof.
King, H. S., A.B. Harv. Asst. Prof.
Todd, E. W., B.A. Instr.
McCurdy, Margaret F., B.A. Asst.

Classics
Murray, H., B.A. Lond., LL.D. Tor. McLeod Prof.
Nichols, E. W., Ph.D. Yale Assoc. Prof.
Griffin, A. K., M.A. Tor., B.A. Ox. Assoc. Prof. (K.).
Logan, J. W., M.A. Lectr.

Commerce
Hunt, B. C., B.B.A. Boston Prof.
Wallace, Judge W. B., LL.D. Lectr. (*Comml. Law*).

Dentistry, v. *infra*

Economics and Sociology
Maxwell, W. R., M.A. Harv. Asst. Prof. (K.).
Prince, S. H., Ph.D. Col. Lectr. (K.).

Engineering, Civil
Copp, W. P., B.A. Ac., B.Sc. McG. Prof.
Theakston, H. R., B.Sc. (Mi.) N.S. T.C. Tech. Asst.

English Lang. and Lit.
MacMechan, A., B.A. Tor., Ph.D. J.H.U., LL.D. Tor. Munro Prof.
MacFarlane, W. D., M.A. McG., Ph.D. Gott. Prof. (K.).

(K.) = King's College.

Bennet, C. L., B.A. Camb.
Asst. Prof. (K.).
Geology [Asst. Prof.
McIntosh, D. S., M.Sc. McG., B.A.

History
Wilson, G. E., M.A. Qu.
Assoc. Prof.
Walker, A. S., M.A. Leeds and Birm. Prof. (K.).

Law, v. *infra*

Mathematics
Macneill, M., M.A. Harv. Prof.
Murray, F. H., A.M., Ph D. Harv.
Asst. Prof. (K.).

Mathematical Physics
Henderson, G. H., Ph.D. Camb., M.A. Prof. (K.).

Medicine and Surgery, v. *infra*

Modern Languages
Gautheron, Réné, ag. de l'Univ. (France) McLeod Prof.
Mercer, C. H., M.A., B.Com. Manc. Asst. Prof.
Scott, R. W., A.M. Prince.
Assoc. Prof. (K.).

Philosophy [Munro Prof.
Stewart, H. L., M.A. R.U.I. and Ox., Ph.D. R.U.I.
Symons, N. J., M.A. Ox.
Assoc. Prof. (*Psychol.*).

Physics [Munro Prof.
Bronson, H. L., B.A., Ph.D. Yale
Johnstone, J. H. L., Ph.D. Yale, M.Sc. Prof.
Bronson, Merle P., M.A. Instr.
Kenty, C., B.A.
MacGregor Fellow.

Physiology and Histology
Babkin, Boris, M.D. St. Petersburg, D.Sc. Lond. Prof.
Dreyer, N. B., B.A. Cape and Ox.
Asst.
Bean, R. J., M.S. N.H.
Assoc. Prof. (*Hist. & Embry.*).
McLaren, P. D., M.D., C.M. Demr.

Political Science, Government and
Munro, H. F., M.A. Harv.
Dennis Prof.

Law, v. also Com.

Agency
MacDonald, V. C., LL.B. Lectr.

Constit. L. [Munro Prof.
Read, J. E., B.C.L. Ox., B.A.

Contracts, Const. Hist., etc.
..... Instr.

Crimes [Lectr.
Doty, I. C., B.A. Acad., LL.B.

Dominion Statutes [Lectr.
Yeoman, R. F., B.A., LL.B.

Evidence
Fielding, G. H. Lectr.

Insurance
Thompson, W. E., LL.B. Lectr.
Jones, F. H. M., B.A., LL.B. ,,

Mortgages and Suretyship
Murphy, T. W., LL.B., K.C.
Lectr.

Partnership
Bell, F. H., B.A., K.C. Lectr.

Prac. Statutes and Interpn.
Macdonald, A. L., B.A. St. F.X., LL.B. Lectr.

Procedure and Property [Prof.
Read, J. E., B.C.L. Ox., B.A.

Shipping [Lectr.
Burchell, C. J., M.A., LL.B., K.C.

Statutes
Archibald, M. B., LL.B. Lectr.

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics
Lessel, J. F., M.D., C.M. Demr.
Muir, W. L., M.D., C.M. McG.
Demr.

Bact., v. Path. and Skin Dis.

(K.) = King's College.

Bio-Chemistry
Young, E. G., B.A., M.Sc. McG., Ph.D. Camb.

Diseases of the Eye, etc.
Mathers, R. E., M.D. N.Y. Lectr.

Gynæcology, v. Obst.

Hygiene and Public Health
Prof. Hattie (v. Ment.) Prof.
Jost, A. C., M.D., C.M. McG. Lectr.
Chisholm, H. A., M.D., C.M. McG. Lectr.

Materia Medica
Burbidge, G. A., M.N.S. Phm. Soc. Demr.

Medical Jurispr.
Churchill, J. L., M.D., C.M. McG. Lectr.

Medicine and Clin. Med., v. also Ped. and Skin.
Silver, L. M., B.A. Vind., M.B., C.M. Edin. Prof.
MacKenzie, K. A., M.D., C.M. Assoc. Prof.
Grant, H. G., M.D , C M., M.R.C.S., L.R.C.P. Lond. Lectr.
Sieniewicz, T. D., M.D., C.M. „
Johnston, S. R., M.D., C.M. Lectr.

Mental Diseases [Prof.
Hattie, W. H., M.D., C.M. McG.
Lawlor, F. E., M.D., C.M. McG. Demr.

Obst. and Dis. of Women and Children
Almon, W. B., M.D., C.M. (Obst.) Assoc. Prof.
Atlee, H. B., M.D., C.M., F.R.C.S. Edin. Assoc. Prof. and Head of Gynæc. Dept.
Macdonald, P. A., M.D., C.M. McG. (Practical O.) Demr.
Maclellan, E. K., M.D., C.M. Assoc. Prof.

Path. and Bacteriology
Nicholls, A. G., M.A., M.D., C.M., D.Sc. McG. Prof.
MacKenzie, D. J., M.D., C.M. Instr.
Lyons, J. N., M.D. Demr. in B.
Grant, G. W. Demr. in P.

Pediatrics and Medicine
Carney, M. J., M.D., C.M. McG., B.A. Lectr.

Pharmacology [Prof.
Gibbs, Owen S., M.B , Ch.B. Edin.

Skin Diseases and Medicine
Mack, F. G., M.B., C.M. Tor. (Demr. in Bact.) Lectr.

Surgery and Clin. Surg.
Hogan, E. V., M.D., C.M. McG., M.R.C.S. Eng., L.R.C.P. Lond. Prof. and Head of Dept.
Murphy, G. H., M.D., C.M. (Clin. S.) Assoc. Prof.
McDonald, H. K., M.D., C.M. McG. (Clin.) Prof.
Stewart, J., M.B., C.M., LL.D. Edin. (Surg.)* Prof.
Weatherbe, P., M.B., Ch.B. Edin. (Op. Surg.) Assoc. Prof. & Demr.
McDougall, J. G., M.D., C.M. McG. (Clin.) Assoc. Prof.
Thomas, L., M.D., C.M., M.R.C.S. Eng., L.R.C.P. Lond. (Pract. Surg.) Demr.

Therapeutics [Lectr.
Corston, J. R., B.A., M.D., C.M.

Dentistry

D. Anatomy
Ritchie, S G., B.A. N.B., D.M.D. T.D.C. Prof.

Crown and Bridge Work, etc.
Oxner, W. C., D.D.S., B.C.D.S. Prof.
Faulkner, A. W., D.D.S. Lectr.

Dentistry
Bagnall, J. S., D.D.S Instr.

Exodontia and Radiology [Lectr.
Hennigar, G. R., D.D.S., B.C.D.S.

* Dean of Faculty.

Genl. and Oral Surg. and Anæsth.
Woodbury, F. V., M.D., C.M. Dal., L.R.C.S. and L.R.C.P. Edin., L.F.P.S. Glas. Prof.

History, Ethics, and Jurispr.
Crosby, H. S., D.D.S. Lectr.
Climo, C. B., D.D.S. Lectr.

Hygiene, Preventive and Clinical Dentistry [Prof.
Thomson, G. K., D.D.S., P.D.C.

Materia Medica
Woodbury, K. F., D.D.S. Lectr.

Metallurgy
Nickerson, C. B., M.A. Lectr.

Operative D. [Prof.
Beckwith, W. H. H., D.D.S. Penn.
Chudleigh, D. G. A., D.D.S., B.C.D.S. Lectr.

Orthodontia
Woodbury, W. W., B.Sc., D.D.S., P.D.C. Prof.

D. Path. and Therap.
Cogswell, A. W., M.D., C.M. Hfx., M.C., D.D.S. Penn. Prof.

Prosthetic D.
Ritchie, S. G., B.A., N.B., D.M.D., T.D.C. Prof.
Bagnall, J. S., D.D.S. Asst. Prof.
Fluck, G. H., D.D.S., P.D.C. Lectr.
Climo, C. B., D.D.S. Dal. Lectr.
Gardner, O. Asst. Demr.

ASSOCIATED AND AFFILIATED INSTITUTIONS

UNIVERSITY OF KING'S COLLEGE, v. *infra.*

PRESBYTERIAN COLLEGE, Halifax. Classes and examns. in Hebrew and in New Testament Greek at the College are recognized as qualifying for the B.A. Students may complete the Div. course at the Coll. and take the B.A. in 6 yrs.

PRINCE OF WALES COLLEGE, Charlottetown, P.E.I. Students holding certain certifs. of the Coll. enter the 1st, 2nd, or 3rd. yr. of the B.A. course.

HALIFAX CONSERVATORY OF MUSIC. Courses recognized for Mus.B. and Lic.Mus.

MARITIME COLLEGE OF PHARMACY. Courses recognized for B.Phm.

MOUNT ST. VINCENT ACADEMY. Recognized for Advanced Standing in 1st and 2nd years in Arts.

GENERAL INFORMATION (v. also p. 322)

Dalhousie College, founded in 1818 by the Earl of Dalhousie, was in 1841 granted Univ. powers, but was closed in 1845 for want of sufficient funds. In 1863 it was reorganized and opened with a staff of 6 Professors. In 1877 the Faculty of Science was organized, and from 1879 development proceeded rapidly with the help of the benefactions of George Munro of New York ($350,000), Alexr. McLeod of Halifax ($65,000), and Sir Wm. Young ($88,000). The Faculty of Law was established in 1883, the School of Mines in 1902. In 1911 the Halifax Medical College, into which the Faculty of Medicine (organized in 1868) had been merged, was acquired by the Univ., and the College of Pharmacy was established with its co-operation. In 1912 the work of the Maritime Dental College was taken over by the Univ. In this year $400,000 was collected for a new site (40 acres) and buildings, etc., towards which Andrew Carnegie gave $40,000. Further benefactions amounting to

$200,000 were received in 1915–18. In connexion with centenary celebrations in 1919 subscriptions amounting to $2,250,000 were obtained.

Appointments to the Board of Governors are made by the Govr.-in-Council on the nomination of the Board or on the nomination, with the approval of the Board, of individuals or bodies supporting chairs.

LIBRARIES. 55,000 vols. and 10,000 pamphlets. Access also to Science Library—61,000 vols. and pamphlets; Legislative—24,000 vols.; Theol.—11,000; Law—18,000. MUSEUMS: Ornith., Geol., Indian antiquities. Access to Provincial Museum of Geol., Mineral., Zool. LABORATORIES: Chem., Physical, Geol., Engin., Biol., Bio-Chem., Physiol., Histol., Pharm., Psychol.

FACULTIES. Arts and Science (including Commerce, Music, Pharmacy, and Engineering); Law; Medicine; Dentistry.

MATRICULATION requirements are articulated to the High School system of the Province which covers the 4 last years of the Public School 12-year course. The compulsory subjects for admission to the B.A., Phm.B., and LL.B. courses are (1) English, (2) Maths., (3) Latin or Greek, (4) another foreign language, (5) History (British or Ancient), Physics, or Chem.; B.Sc. or B.Mus.—(1), (2), (5), French, German; M.D., C.M., or D.D.S.—(1), (2), (4), Latin, Brit. Hist., Physics, Chem.

DEGREE COURSES. 4 yrs.—B.A., B.Sc., B.Com.; 3 yrs.—LL.B., Mus.B.; 5 yrs.—D.D.S.; 6 yrs.—M.D., C.M. (taken together); 4 yrs. (following 4 yrs. practical experience)—B.Sc. (Phm.); the first 2 yrs. of the Engin. course (v. p. 326). The M.D., C.M., and D.D.S. can be reached by concurrent courses in 7 yrs. The M.A. or M.Sc. is given on successful completion of an approved 1-yr. course of study by a B.A. or B.Sc., respectively, of an approved Univ. The course may be pursued by graduates of Dalhousie wholly or in part by private reading, attendance at the Univ. being optional for them (v. also pp. 106, 267, 276, 277, 309, 638).

DIPLOMA course for the LIC.MUS.—2 yrs. Music and Pharmacy courses are taken in the Affiliated Institutions, v. *supra*. A 6 mos.' course of training for Pub. Health work for trained nurses is provided.

FEES. For tuition, for each class (ex. lab. or draughting-room), $18; lab. or draughting-room class, $23. Composition for tuition in Law, $150 p.a.; Med. or Dent., $200 p.a. (first year, $132).

SCHOLARSHIPS FOR GRADUATES. $250 in Polit. Sc. for study in another Univ. LOAN FUNDS for students have been instituted.

RESIDENCE. Hostel for 90 women students, erected at a cost of $400,000. Dormitories are provided also for men students.

PUBLICATIONS. *Calendar* (July); *Annual Report* (Sept.); *Gazette*, $1; *Dalhousie Review*, quarterly.

THE YEAR 1924–25

BENEFACTIONS. Carnegie Corporation of New York, $90,000 to assist in wiping out the deficit accumulated since the outbreak of the war and $20,000 p.a. for 5 years towards expected deficits pending settlement of question of University federation in the Maritime Provinces; Hon. R. B. Bennett, $20,000 for purchase of residence for the President.

NEW BUILDINGS. Pathological Institute (of Victoria General Hospital) remodelled and enlarged at cost (to Provincial Govt.) of $200,000.

NEW POSTS. Prof. of Pharmacology; Supt. of Out-patient and Public Health Clinic.

CO-OPERATION. A Central Advisory Committee for the Maritime Provinces and Newfoundland formed to assist the federation of educational institutions therein.

RESIGNATIONS. D. A. MacRae, to accept professorship of Law in Osgoode Hall, Toronto; S. E. Smith, to accept a post at Osgoode Hall. DEATH: F. W. Ryan.

DEGREES CONFERRED. B.A., 64 (including women—30); M.A., 4 (w.—2); B.Sc., 5; M.Sc., 2 (w.—1); LL.B., 20 (w.—1); M.D., 43 (w.—2); D.D.S., 14; B.Com., 5.

STUDENTS. Full-time, preparing for a first degree, 649, including 192 women; graduates, 10 (women—5). Occasional, 38 (women—26).

UNIVERSITY EXTENSION WORK. Medical post-graduate clinical course, two weeks in autumn 1924. Two courses of public lectures in the Univ. Courses by members of staff at nine centres in the province (27 lectures).

UNIVERSITY OF KING'S COLLEGE, HALIFAX, NOVA SCOTIA

Associated with Dalhousie University.

PATRON—THE ARCHBISHOP OF CANTERBURY.

VISITOR AND PRESIDENT OF THE BOARD OF GOVERNORS—THE ARCHBISHOP OF NOVA SCOTIA.

VICE-PRESIDENT OF THE BOARD OF GOVERNORS—THE BISHOP OF FREDERICTON.

PRESIDENT—Rev. ARTHUR H. MOORE, M.A., D.C.L.

REGISTRAR—T. H. HUNT, M.A., D.D.

BURSAR AND DEAN OF RESIDENCE—R. L. NIXON, M.Sc.

DEAN OF WOMEN—Mrs. W. F. MCCURDY.

PROFESSORS AND LECTURERS: *Divinity*—Vroom, Ven. Archdeacon F. W., D.C.L. Bishop's Coll., M.A., D.D., Senr. Prof. and Librarian; Hunt, T. H., M.A., D.D., Alexandra Prof.; Hiltz, R. A., M.A., D.C.L., Lectr.; Armitage, Ven. W. J., M.A., Ph.D. Lectr.

For *Classics, Economics, English, History, Maths., Math. Physics, Mod. Langs., and Philos.*, see Dalhousie Univ. staff list.

GENERAL INFORMATION (v. also p. 322)

Postal Address—King's College, North West Arm, Halifax, N.S.

Opened in 1790 at Windsor, N.S., the College was established with full University powers by Royal Charter in 1802. In Sept. 1923, following the recommendation of experts commissioned by the Carnegie Foundation for the Advancement of Teaching, who advocated the policy of bringing together the colleges of the Maritime Provinces in one central Univ. at Halifax, the Univ. removed to Halifax and became associated with Dalhousie Univ.—the first step towards a federation of the maritime colleges. The staffs in Arts of the two Univs. are combined in one faculty The first year courses are given independently to the students of Dalhousie and of King's; but with this exception students of both institutions follow on equal terms the same courses leading to the same degrees. King's holds in abeyance her degree conferring power in Arts and Science, but retains complete control of her Divinity School as well as of her present endowments, administration of residences, etc. Under the terms of the agreement between Dalhousie and King's, the Carnegie Foundation has set aside $600,000, which will be handed over to King's when a sum sufficient to establish the College in Halifax has been raised. The School of Law which was established in connexion with the College, in St. John, N.B., in 1892, was transferred to the Univ. of New Brunswick in Sept. 1923, when King's College removed to Halifax. The Univ. is governed by a Board consisting of the Bishops of the dioceses of Nova Scotia and Fredericton and the President of the Univ. *ex officio*, together with 10 members elected by the Alumni Assocn. and 8 elected by each of the diocesan Synods.

Students from the JAMAICA CHURCH THEOLOGICAL COLLEGE who, after a residence of six terms there, pass the required examns. in the subjects of the Divinity course at King's, may receive the diploma of L.S.T.

THE YEAR 1923–24

Number of Students, 70. Degrees conferred: B.A., 9; M.A., 12; M.Sc., 1; B.D., 2; D.D., 2; D.C.L., 1. Retirement: Dr. C. E. Willets, Sept. 1923. Resignation: President, Dr. T. Stannage Boyle, June 1924.

LAVAL UNIVERSITY, QUEBEC

VISITOR AND CHANCELLOR APOSTOLIC—His Grace Mgr. P. E. ROY, Archbishop of Quebec.

RECTOR—Mgr. CAMILLE ROY, L. ès L. Sorbonne, D.Ph., Sup. of the Seminary of Quebec.

SECRETARY OF THE UNIVERSITY AND MODERATOR—Prof. W. E. CANNON, M. ès A.

TEACHING STAFF

Anatomy, v. Med.

Astronomy, Practical
Smith, A., M.A. (Dir. of Quebec Observatory) Prof.
Simard, H., M.A., D.D. Prof.

Biology, v. Med.

Chemistry
Fillion, Ph. J., M. ès A. Prof.

Chemistry, Analytical
Garneau, Sir G., B. ès Sc.Ap., Ing.Civ., C.L.D'H. Prof.

Chemistry, Organic
Risi, L., D. ès Sc. Frib. Prof.
Gunstenperger, J., D. ès Sc. Frib. Asst. Prof.

Classics
Pelletier, Mgr. F., M.A. (Greek Lit.) Prof.
Croissant, L., L. ès L. Sorbonne, M.A. (Greek Lang.) Prof.
Hébert, P., M.A. (Latin Lit.) Prof.
LeBel, A., D. ès Lettres (Latin Lit.) Prof.
Levesque, R., M.A., L. ès L. Sorbonne (Latin Lit.) Prof.

Commerce, v. Law

Dentistry, v. Med.

Economics, v. Soc.

Elocution
Rivard, Hon. A., M.A., D. en Dr., D. ès L., K.St.Gr.* Prof.

English
Cannon, W., M.A. Prof.

Entomology
Maheux, G., M.A., Ing.For. Prof.

Forestry
Piché, G. C., M.A., Ing.For. Prof.
Bédard, A., M.A., Ing.For. Prof.

Forest Law
Richard, L. A., D. en Dr. Prof.

French Language
Aubert, A. Prof.

French Literature [Prof.
Roy, C., L. ès L. Sorbonne, D.Ph.
Gaillard de Champris, H., D. ès L. Prof.
Maheux, A., M.A., L. ès L. Sorbonne Prof. of Rhetoric.
Laliberté, M., M.A., L. ès L. Sorbonne Prof. of Belles-Lettres.

Geology and Mineralogy
Vachon, A., M.A., L.Phil. Prof.

Histology, v. Med.

History (General)
Chapais, Hon. T., D.L., C.St.Gr., C.L.D'H. Prof.
Savard, G., Prof.

History of the Church
Gignac, J., D.D. Prof.

* Judge of the High Court.

History of Canada and of the Church in Canada
Gosselin, Mgr., M.A. Prof.
Genest, O., B. ès L. Prof.

Law, v. *infra*

Mathematics
Tremblay, A. Prof.
Mercil, A., M. ès A., Ing.Civ., B. ès Sc.Ap. Prof.
Bergeron, O., M. ès A. Prof.

Medicine, v. *infra*

Music
Vezina, J., Mus.D. Prof.
Gilbert, J. A., Mus.D. Prof.
Talbot, R. Asst. Prof.
Pelletier, Canon J. R. Prof.

Pedagogy
Courchesne, G., D.Th. Prof.

Philosophy [Prof.
Roy, G., B.A., L.Ph., L.Dr., D.Th.
Robert, A., M.A., L. en Econ. Louv., D.D. Prof.

Physics
Simard, H., M. ès A., D.Th. Prof.
Larose, P., Ph.D. McGill Prof.

Physiology, v. Med.

Social and Political Econ.
Gregoire, J. E., LL.L., L. és Sc. Louv. (S. and P.) Prof.

Surveying
Joncas, P., Ing.Civ., B. ès Sc.Ap., M.Can. Soc. C.E. (Building and S.) Prof.

Theology, v. also Hist.
Paquet, Mgr. L. A., V.G., D.Th., M.St.T.A. Prof.
Nadeau, E., D.Th., L. en Dr. Can. Prof.
Gariépy, Mgr. C. N., D.Th. Prof.
Gagnon, C., D.Th. Prof.
Foy, C., Lic. en. Ph., D.Th. Prof.
Gignac, Canon J., D.Th., D. en Dr. Can., Rome (Canon Law) Prof.
Grandbois, J. E., L. en Ph., D.Th. (Holy Script. and Orient. Langs.) Prof.
Robert, A., M.A., D.Th., D.Ph., D.St.T.A., L.Sc. Louv. Prof.

Zoology and Botany
Robitaille, A., M.A. Prof.

Law

Admin., Const., and Munic. L.
Sirois, J., D. en Dr. Prof.

Civil L. [Prof.
Dorion, Hon. C. E., D. en Dr.,*
Roy, F., D. en Dr., K.C., O.I.P. Prof.

Commerc. and Marit. Law
Bernier, L. M. J. A., D. en Dr.,* Prof.
Marchand, A., D. en Dr., K.C. Prof.
Gravel, J., D. en Dr , K.C. Prof.

Criminal L. [Prof.
Lachance, A., L. en D., Judge
Fitzpatrick, Rt. Hon. Sir Chas., G.C.M.G., D. en Dr., P.C.C. Prof.

History of L. [Prof.
St. Laurent, L., D. en Dr., K.C.

International L.
Rivard, Hon. A., M.A., D. ès L., D. en Dr.* Prof.

Municipal, L. [Prof.
Prévost, J. A., D. en Dr., K.C.

Procedure, Civil
Pouliot, A., D. en Dr. Prof.
Baillargeon, E., D. en Dr., K.C. Prof.
Gagué, J.-A., LL.L., K.C. Prof.

Roman L.
Flynn, Hon. E. J., D.en Dr.* Prof.
Belleau, E., D. en Dr., K.C. Prof.
Desrivières, E., D. en Dr. Prof.

Medicine

Anatomy, Descr.
Dagneau, C., M.D Prof.

* Judge of the High Court.

Anatomy, Pathological
Vallée, A , M.D. (Dir. of P.A. and Bact. Labs.) Prof.

Anat. and Oper. Med., Pract.
Pâquet, A., M.D. Prof.

Biology
Vézina, C., M.D. Prof.

Dentistry
Langlois, A., D.Dent. Prof.
Gaudreau, S., D.Dent Prof.

Dermatology
Mayrand, R., M.D. Prof.

Gynæcology and Gyn. Clin.
Grondin, S., M.D., C.L.D'H., O.I.P. Prof.
Caouette, J., M.D. Prof.

Histology and Bact.
Potvin, R., M.D. Prof.
Berger, L., M.D. Stras.

Hygiene, Public
Paquin, R., M.D. Prof.
Couillard, E., M.D. Prof.

Laryngology
Fiset, L. J. N., M.D. Prof.
Dussault, N. A., M.D. (Rhino-Lar., etc.) Prof.
Vaillancourt, J., M.D. Prof.

Materia Medica
Faucher, P. V., M.D. Prof.
Turcot, E., M.D. Prof.
Roy, S., M.D. Prof.

Mental Disease
Brousseau, A., M.D. Paris Prof.

Ophthalmology
Pagé, J. D., M.D. Prof.

Ophth. and Ot. Clin., etc.
Coote, P., M.D. Prof.

Pathology, Ext. and Clin. Surg.
Simard, E. T. A., M.D., O.I.P. Prof.

Path., Genl. and Clin. Med.
Rousseau, A., M.D., O.A. Prof.

Path., Internal
Brochu, M. D., M.D., O.I.P. Prof

Pediatrics, Hygiene, etc.
Fortier, E. R., M.D. Prof.
Jobin, A., B.A., M.D. Prof.

Physiol. and Clin. Med.
Lacroix, J. B. Prof.

Surgery, Clinical
Dagneau, C., M.D. Prof.
Marois, A., M.D. Prof.

Therapeutics
Guérard, J., M.D. Prof.
Lessard, A., M.D. Prof.

Toxicol., Leg. Med., etc.
Marois, A., M.D. Prof.

INSTITUTIONS ANNEXED OR AFFILIATED TO THE UNIVERSITY

["Annexion" implies absolute control by the Univ. of the programmes of study and of the nomination of the staff. "Affiliation" or—in the case of an institution outside the province of Quebec—"agrégation" involves control by the Univ. of examinations.]

ÉCOLE D'ARPENTAGE ET DE GÉNIE FORESTIER (Surveying and Forestry). Founded by Govt. and annexed to the Faculty of Arts. Director, Avila Bédard, Prof. of Forestry. 11 other Profs.

ÉCOLE AGRICOLE DE STE. ANNE DE LA POCATIÈRE, affiliated. Director, Prof. N. Pelletier. 12 other Profs.

ÉCOLE SUPÉRIEURE DE CHIMIE. Annexed to the Faculty of Arts. Director, ... 7 other Profs.

ÉCOLE NORMALE SUPÉRIEURE. Annexed to the Faculty of Arts. Director, Prof. F. Pelletier. 4 other Profs.

ÉCOLE DE MUSIQUE. Annexed to the Faculty of Arts. Director, A. Gilbert. 6 other Profs.

ÉCOLE DE PHARMACIE. Annexed to the Faculty of Arts. Director, A. E. Francœur.

ÉCOLES DE GARDE—MALADES.

GRANDS SÉMINAIRES. (Pupils obtain the B. en Th. by passing a certain number of quarterly examns. in the Seminary.) Québec (comprising Theol. students under its jurisdiction or following its courses); Ste. Anne de la Pocatière (Coll. de Ste. Anne); Rimouski; Chicoutimi; Nicolet; Trois Rivières.

ENSEIGNEMENT SECONDAIRE MODERNE ET CLASSIQUE. Numerous institutions are affiliated to the Univ. under conditions providing for complete preparation for Inscription and the Baccalauréat.

GENERAL INFORMATION (v. also p. 322)

The Univ. was founded by the Seminary of Quebec in 1852 under a Royal Charter. A general supervision of teaching and discipline is exercised by the Archbishop of Quebec as Visitor and Chancellor Apostolic and President of the Conseil Supérieur of Archbishops and Bishops of the Province. The Profs. of the Faculty of Theology are nominated by the Visitor, those of other Faculties by the Conseil de l'Université, composed of the Directors of the Seminary of Quebec and 3 Senior Profs. of each Faculty.

LIBRARIES, 158,000 vols. MUSEUMS: Mineral., Geol., Bot., Zool., Ethnol., Relig., Paintings, Coins. LABORATORIES: Chem., Phys., Bact., Biol., Physiol.

FACULTIES. Arts (with Schools of Surveying and Forestry, Chemistry and Training for Teachers annexed), Theology, Law, Medicine.

DEGREES AND DIPLOMAS. The Univ. perpetuates the stages by which a Degree was, and still is, reached in the Univ. of Paris. The Baccalauréat (B. ès A., etc.) is not the equivalent of any of the English Degrees, but is an official certificate (recognized by the Govt.) that the student has successfully completed his literary and scientific studies, and is entitled to begin his professional studies in law, medicine or applied science. It is obtained before he leaves the affiliated Institute, Seminary or College at which he has studied. Students who reach a certain standard in both Letters and Sciences obtain the B. ès A.; those who reach this standard in either and a certain lower standard in the other obtain the B. ès L. or B. ès Sc. The course for the Licence covers 2 yrs. in Philos. (L. en Ph.) or Letters (L. ès L.); 3 yrs. in Theol. or Law (L. en Th. or Dr.). To obtain the D. en Ph. or D. en Dr. it is necessary to support successfully in public a thesis and propositions as in other French Univs. The D. en Th. and D. en M. or M.D. are granted after examn.

The complete medical course formerly lasted only 4 yrs., but since Jan. 1909 has, in accordance with the regns. of the Provincial Coll. of Phys. and Surgns., been framed so as to cover 5 yrs. The Baccalauréat, however, may be taken on the completion of 2 yrs. The Doctorat gives admission to the examn. for the Diploma of M.R.C.S. Lond. Inscription in Arts is recognized as corresponding to the Prelim. examn. of the R.C.S. Lond. The examns. for the Dipl. of Hygiéniste expert may be taken by a D. en M. after a 6 mos.' course.

The Diploma in Forestry or Bachelorship in Surveying implies 4 yrs.' study in the Sch. of Surveying and Forestry.

The new École de Chimie provides a 4 yrs.' course leading to a Licence and to a Doctorate in Chemistry.

RECOGNITION of the B. ès A. of Laval is accorded by the Univs. of Rome, of France and of Louvain, and by Canadian Univs., and some of those of the U.S.A. (v. also p. 277).

FEES for tuition, $100 to $185 p.a.

SCHOLARSHIP OPEN TO GRADUATES. $400 p.a. for 2 years.

THE YEAR 1924–25

NEW BUILDINGS. School of Chemistry and Surveying.

NEW AFFILIATIONS. Schools of nursing of the hospitals of Doctors Cross and Normand and of St. Francis of Assisi; Institut des Dames Rel. de Jesus-Marie, Sillery; L'École Apost. Notre Dame, Quebec; Séminaire du Sacré-Cœur, St. Victor.

RECOGNITION of the Laval "licence" equivalent to the licence leading to doctorate in the French Univ. was accorded by the French Govt. in Dec. 1924.

DEGREES CONFERRED. L. ès L., 27; M.A., 27; D. ès L. (Hon.), 2; D. ès Sc. Agr. (Hon.), 1; D. ès Sc., 1; B. en Phm., 4; B. ès Sc. Agr., 7; Arp. Stag., 7; Ing. For., 6; Ing. des Mines, 1; B. ès Sc. App., 2; M.B., 75; M.D., 53; M.D. (Hon.), 5; B. en Dr., 4; L. en Dr., 28; D. en Dr., 1; D. en Dr. (Hon.), 9; B. en Dr. Can., 3; B. en Th., 15; L. en Th., 15; D. en Th., 13; D. en Th. (Hon.), 1.

STUDENTS. Theol., 198; Law, 84; Med., 228; Ec. Norm. Sup., 25; Ec. Pharm., 14; Ec. Sup. Chimie, 22; Ec. d'Arp. et G. For., 23; Philos.-Sciences, 15; Commerce, 22; Mod. Langs., 72; Music, 156; total, 859. In Affiliated Institutions, 2231.

McGILL UNIVERSITY, MONTREAL

VISITOR—THE GOVERNOR-GENERAL OF CANADA.

PRESIDENT OF THE BOARD OF GOVERNORS AND *ex officio* CHANCELLOR—E. W. BEATTY, B.A., K.C.

PRINCIPAL AND VICE-CHANCELLOR—Sir ARTHUR W. CURRIE, G.C.M.G., K.C.B., LL.D.

SECRETARY AND BURSAR—A. P. S. GLASSCO, B.Sc.

REGISTRAR—J. A. NICHOLSON, M.A., LL.D.

LIBRARIAN—G. R. LOMER, M A., Ph.D.

HON. REPRESENTATIVE IN GREAT BRITAIN—W. A. BULKELEY-EVANS, M.A., 5 Paper Buildings, Temple, London, E.C.4.

INCORPORATED COLLEGES

MACDONALD COLLEGE, at Ste. Anne de Bellevue (about 20 miles from Montreal), including School of Agric., School for Teachers, and School of Household Science.

Principal—F. C. Harrison, B.S.A. Tor., D.Sc.

ROYAL VICTORIA COLLEGE, Montreal (The Women's College of the Univ.).
Warden—Ethel Hurlbatt, M.A. Dub. (Somerville Coll., Oxford).

PROFESSORS, LECTURERS, ETC.

Accountancy
Thompson, R. R., A.C.A. (Engl. & Wales) Asst. Prof.

Agriculture, v. *infra*

Anatomy [Prof.
Whitnall, S. E., M.A., D.M. Ox.
MacDermot, H. E., M.D. Lectr.
Thompson, I. McL., B.Sc., M.B., Ch.B. Edin. Asst. Prof.
12 Demrs.

Architecture
Traquair, R., M.A. (Hon.), F.R.I.B.A. Macdonald Prof.
Nobbs, P. E., M.A., F.R.I.B.A., A.R.C.A. (Design,) Prof.
Dyonnet, E. Spl. Instr.
Turner, P. J., F.R.I.B.A. (Constrn., etc.) Lectr.
Carless, W., O.B.E., F.R.I.B.A. Asst. Prof.
Thomson, L. R., B.A.Sc. Spl. Lectr.

Bio-Chemistry [Prof.
Macallum, A. B., M.A., M.B., Ph.D., D.Sc., LL.D., F.R.S.
Bliss, S. W., M.A., Ph.D. Asst. Prof.
Mason, E. H., Ph.B., M.D. Lectr. (*Path. Chem.*).
Rabinowitch, I. M., M.D. Lectr. (*Path. Chem.*).
2 Demrs.

Botany [Macdonald Prof.
Lloyd, F. E., M.A. Princeton.
Derick, Carrie M., M.A. (Morph. B.) Prof.
Scarth, G. W., M.A. Asst. Prof.

Chemistry

Ruttan, R. F., B.A., D.Sc. Tor., M.D. Macdonald Prof.
Evans, N. N., M A.Sc. Assoc. Prof.
Johnson, F. M. G., M.Sc., Ph.D. Bres., F.I.C. Prof. (Inorg. C.).
Maas, O., M.Sc., Ph.D. Harv. Prof. (Physical Chem.).
Whitby, G. S., M.Sc., Ph.D., A.R.C.S. Prof. (Organic Chem.).
McLean, A. R M., M.Sc., Ph.D. Asst. Prof.
Hatcher, H. W., M.Sc., Ph.D. Asst. Prof.
9 Demrs.

Classics

Woodhead, W. D., B.A. Ox., M.A. Alberta, Ph.D. Chic. Prof.
Stanley, Carleton W., B.A. Ox. Prof.
Carruthers, C. H., B.A. Ox., M.A. Asst. Prof.
Thompson, A. M., Ph.D. Harv. Asst. Prof.
Irwin, Eliz. A., M.A. Lectr. & Tutor.*

Commerce, v. also Acctcy., Law

Sugars, R. M., M.A. Dir. of School and Assoc. Prof. of Spanish.

Dentistry, v. *infra*

Economics, v. Pol. Econ.

Education

School for Teachers in Macdonald College: [Dean & Prof.
Laird, S., M.A., B.Phil.
Brunt, H. D., M.A., Ph.D. Lectr.
Chapman, Miss A. Irene, M.A. Mt. Allison Lectr.
Lockhart, A. R. B., B.A. Lectr.
Thompson, J. G., M.A. Lectr.
Howitt, M. H., B.S.A. Lectr.
Musgrove, R. B. Lectr.
Brownrigg, Miss N. Lectr.
2 Instrs.

Department of Physical Education:

Lamb, A. S, M.D. Director.
6 Assts.

Engineering, v. *infra*

English Lang. and Lit.

McMillan, C., M.A., Ph.D. Harv. Molson Prof.
Latham, G. W., B.A. Harv. Assoc. Prof.
Files, H. G., M.A , Ph.D. Harv. Asst. Prof.
Baxter, F. W., B.A. Oxon. Asst. Prof.
4 Assts.

French [Prof.
Du Roure, R., Agrégé France
Furness, Lucie Touren, L. ès L. France Asst. Prof.*
Messac, Regis Asst. Prof.
Villard, P., M.A., M.D., O.I.P. Assoc. Prof.
Framery, B. Lectr.
Roche, A. J., L. ès L. France Lectr.

Geology

Bancroft, J. A., Ph.D. Dawson Prof.
O'Neill, J. J., M.Sc., Ph.D. Asst. Prof.
Clark, T. H., Ph.D. Asst. Prof.
1 Demr.

German

Walter, H., M.A. Edin., Ph.D. Mun. Prof.
Lambert, E. T., B.A. Lond. Asst. Prof.
Meyer, Bertha, M.A. Lectr.

Hebrew and Semitic Langs.

Brockwell, C. A. B., M.A. Prof.
Gordon, A. R., M.A., D.Litt. Aberd. Prof.
Graham, W. C., M.A. Lectr.

Hellenistic Jewish Lit.

Abbott-Smith, G., M.A., D.D., D.C.L. Asst. Prof.

* In Royal Victoria Coll.

Histology and Embryology
Simpson, J. C., B.Sc. Assoc. Prof.
Fisk, W. M., M.D. (Histol.) Lectr.

History
Waugh, T. R., M.A. Prof.
Fryer, C. E., M.A., Ph.D. Harv. Prof.
Adair, E. R., B.A. Camb. Assoc. Prof.
1 Asst.

Household Science
Philp, Miss B., Head of the School of H.S. in Macdonald Coll.
5 Instrs.

Law, v. *infra*

Logic, v. Philos.

Mathematics
Murray, D. A., Ph.D. (J.H.U.) Redpath Prof.
Sullivan, C. T., B.A. Dal., M.Sc., Ph.D. Chic., D.Sc. Prof.
Gillson, A. H. S., M.A. Camb. Assoc. Prof.
Matthews, T. H., M.A. Ox. Asst. Prof.
Tate, H., B.Sc., M.A. Dub. Asst. Prof.
Williams, W. L. G., Ph.D. Asst. Prof.
Dodd, G. J., M.Sc. (M. and Civ. Engin.) Asst. Prof.
Jamieson, R. E., M.Sc. (M. and Civ. Engin.) Asst. Prof.
Campbell, A., B.Sc. Lectr.

Medicine, v. *infra*

Mineralogy [Assoc. Prof.
Graham, R. P. D., B.A. Ox., M.Sc.

Mining, v. Engineering

Music
Perrin, H. C., Mus.D. Dub. Prof.
Lichtenstein, Clara Assoc. Prof.*

Nursing
Shaw, Miss M. Directress of School.
16 Lectrs. and Instrs. (Part-time).

Philosophy
Caldwell, W., D.Sc. Edin. (Moral P.) Macdonald Prof.
Mackay, Ira A., M.A. LL.B., Ph.D., LL.D. Prof. (Logic and Metaphysics).

Physics [Macdonald Prof.
Eve, A. S., D.Sc., F.R.S.
Barnes, H. T., D.Sc., F.R.S. Prof.
King, L. V., M.A. Camb., D.Sc. Prof.
Shaw, A. N., B.A. Camb., D.Sc. Assoc. Prof.
Gillson, A. H. S., M.A. Camb. Assoc. Prof.
Reilley, H. E., B.A., M.Sc. Asst. Prof.
Keys, D. A., M.A., Ph.D. Asst. Prof.
Bieler, E. S., M.Sc., Ph.D. Asst. Prof.
Foster, J. S., Ph.D. Asst. Prof.
7 Demrs.

Physiology
Tait, J., M.D., D.Sc. Drake Prof.
Cassidy, G. J., M.D. Lectr.
Giblin, N., M.B., Ch.B. Asst. Prof.
5 Demrs.

Political Economy
Leacock, S., B.A. Tor., Ph.D. Chic., Litt.D., LL.D. Prof.
Hemmeon, J. C., M.A., Ph.D. Harv. Assoc. Prof.
Day, D. J., B.A., B.Sc., Ph.D. Assoc. Prof.
Farthing, John, M.A. Asst. Prof.

Psychology
Tait, W. D., B.A. Dal., Ph.D. Harv. Prof.
Kellogg, Chester E., Ph.D. Assoc. Prof.

* In Royal Victoria Coll.

Bridges, J. W., Ph.D.
Assoc. Prof. (Med. Psychology).

Social Service
Dawson, C. A , Ph.D. Director.
Gettys, W. E., Ph.D. Asst. Prof.
10 Lectrs. (Part-time).

Spanish, v. Commerce

Zoology [Strathcona Prof.
Willey, A., D Sc., F.R.S.
Hogben, L. T., M.A. Camb., D.Sc. Lond. Asst. Prof.
North, F. G., B.S.A. Lectr.
Henderson, Jean T., B.A. Lectr.

Agriculture, School of, in Macdonald Coll.

Agricultural Engineering
Heimpel, L. G., B.S.A. Lectr.
1 Asst.

Agronomy
Summerby, R., M.S.A. Prof.
M'Taggart, Alex., Ph.D. Asst. Prof.
Raymond, L. C., B.S.A. Asst. Prof.

Animal Husbandry
Barton, H., B.S.A. Prof.
Ness, A. R., B.S.A. Lectr.
Crampton, Earle W., M.S., B.S.A. Lectr.

Bacteriology [Prof.
Harrison, F. C., D.Sc (Principal)
Sanborn, J. R., M.Sc. Lectr.
1 Asst.

Biology
Dickson, B. T., B.A., Ph.D. Prof.
Duporte, E. M., Ph.D. Lectr.
Coulson, J. G , M.A. Lectr.
1 Asst.

Chemistry
Snell, J. F., Ph.D. Prof.
McCarthy, J. B., B.A., D.Sc. Asst. Prof.
1 Asst.

Homemakers Clubs, etc.
A Superintendent and 10 other Assts.

Horticulture
Bunting, T. G., B.S.A. Prof.
Tawse, W. J., B.S.A. Lectr.
Bemont, L. H., B.S. Lectr.
1 Asst.

Physics
..... Prof.

Poultry
Maw, W. A., B.S A. Lectr.
1 Asst.

Dentistry

Clinical Dentistry
Thornton, A. W., D.D.S. (Dean of the Faculty) Prof.

Dental Pathology and Therapeutics
Henry, Fred. G., D.D.S. Prof.

Operative D.
Baxter, F. H. A., D.D.S. Prof.
Walsh, A. L., D.D.S. Assoc. Prof.

Oral Surgery
Henry, C. K. P., M.D. Lectr.

Orthodontia
McClelland, A. W., D.D.S. Prof.

Prosthetic D.
Cameron, G. S., D.D.S. Prof.
Dohan, J. S., D.D.S Assoc. Prof.

D. Jurisprudence [Prof.
Bond, W. L., B.A., B.C.L., K.C.

D. Anatomy
Abraham, J. W., D.D.S. Lectr.

D. History, Ethics and Econ.
Stevenson, F. A., D.D.S., D.M.D. Harv. Lectr.

Engineering

Applied Mech. and Hydraulics
Brown, E., M.Sc., M.Eng. Prof.

Civil Engineering
Mackay, H. M., B.A., B.A.Sc., M.Am.Soc.C.E. Prof.
..... Assoc. Prof.
Jamieson, R. E., M.Sc. Asst. Prof.

Dodd, G. J., M.Sc. Asst. Prof.
Wood, F. M., M A., B.Sc. Lectr.
2 Assts.

Economics
Day, J. P., B.A., B.Sc. Lond., D.Phil. St. Andrews Assoc. Prof
Brown, F. B., M.Sc. Lectr.

Electrical Engineering
Herdt, L. A., E.E. (Inst. Montef., Belg.), D.Sc. Macdonald Prof.
Christie, C. V., M.A., B.Sc. Dal. Assoc. Prof.
Burr, E. G , B Sc. Asst. Prof.
Wallace, G. A., M.Sc. Asst. Prof.
2 Demrs.

Freehand Draw. & Descr. Geom.
Armstrong, H. F., M.A. (Hon.) Assoc. Prof.
3 Demrs.

Highway and Municipal E.
French, R. de L., B.Sc , C.E. Prof.

Law, Engineering
Weldon, J. W. Lectr.

Mechanical Engineering
McKergow, C. M., M.Sc. Prof.
Roberts, A. R., M.Sc. Assoc. Prof.
Coote, J. A., B.Sc. Asst. Prof.
Patten, R. H., B.Sc. Lectr.
Vessot, C. U., M.Sc. Lectr.
McCurdy, L. R., B.Sc. Lectr.
5 Demrs.

Metallurgical Engineering
Stansfeld, A., D.Sc. Lond. Prof.
Sproule, Gordon, M.Sc. Asst. Prof.
Pascoe, C. F. Spl. Lectr.
Roast, H. J. Sess. Lectr.
1 Asst.

Mining Engineering
Porter, J. B., E.M , Ph.D. Col., D.Sc. (Hon.) Cape M.I.C.E. Macdonald Prof.
Bell, J. W., M.Sc. Assoc. Prof.
Erlenborn, Willi, M.Sc. Lectr.
3 Research Fellows.

Surveying and Geodesy
Kelly, A. J., B.Sc. Asst. Prof.
Weir, James, B.Sc Asst. Prof.
1 Demr.

Law

Civil Law
Howard, Hon. Justice E. E , B.A., B.C.L., K.C. Prof.
Chipman, W. F., B.A., B.C.L., K.C. Assoc. Prof.
Beullac, P., K.C. Lectr.

Civil Procedure [Prof.
Surveyer, Hon. Justice E. F., B.A. Laval, B.C.L., K C.

Commercial Law [Prof.
Martin, Justice J. E., B.C.L , K.C.
Le Mesurier, C. S., B.A., B.C.L. Assoc. Prof.
Tyndale, O. S., M.A., B.C.L. Asst. Prof.

Constitutional and Federal Law
Smith, H. A., M.A. Ox. Prof.

Criminal Law
Greenshields, Hon. Justice R. A. E., B.A., B.C.L. Prof.

Ethics, Legal [Prof.
Mignault, P. B., LL.D. Laval, K.C.

Evidence [Prof.
Wainwright, A., B.A., B C.L., K.C.

Internat. Law, Private
McDougall, G. W., B.A., B.C.L., K.C. Prof.

Municipal Law
Rinfret, T., B.C.L. Lectr.

Notarial Law
Bridgman, R. H , B.C L. Lectr.

Roman Law [Prof.
Corbett, P. E., B.A. (Jurispr.) Ox.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology
Bruère, A. A., M.D. Edin. (B. and Clin. Med.) Asst. Prof.
1 Asst. Demr.

Dermatology [Clinical Prof.
Campbell, C. G., B.Sc., M.D.
Burnett, P., M.D. Lectr.
Burgess, J. F., M.D. Lectr.
1 Demr.

Gynæcology and Obst.
Chipman, W. W., B.A., M.D. and F.R.C.S. Edin. Prof.
Little, H. M., B.A., M.D. Asst. Prof.
Goodall, J. R., O.B.E., B.A., M.D., D.Sc. Lectr.
Patrick, D., M.D. Lectr.
Duncan, J. W., M.D. Lectr.
Burgess, H. C., M.D. Lectr.
Fraser, J. R., M.D. Lectr.
Bauld, W. A. G., M.D. Lectr.
2 Demrs.

History of M.
Macphail, Sir A., B.A., M.D. Prof.

Hygiene [Strathcona Prof.
Starkey, T. A., M.B., D.Ph., L.R.C.P. Lond., M.R.C.S. Eng., M.D., C.M.
McDonald, R. St. J., B.A., M.D., D.P.H. Asst. Prof.
Jones, F. B., M.D., D.P.H. Asst. Prof.

Med. Jurispr. [Prof.
MacTaggart, D. D., B.A.Sc., M.D.

Med., v. also Bact., Ped.
Meakins, J. C., M.D. Prof.
Martin, C. F., B.A., M.D. Prof.
Howard, C. P., B.A., M.D. Prof.
Hamilton, W. F., M.D. Prof.
Gordon, A. H., M.D. Assoc. Prof.
Peters, C. A., M.D. Lectr.
Mason, E. H., M.D. Asst. Prof.
Kaufmann, J., M.D. Lectr.
Cushing, H. B., M.D. Lectr.
Lewis, D. S., B.A., M.D. Lectr.
Wylde, C. F., M.D. Lectr.
Moffatt, C. F., M.D. Lectr.
Rabinowitch, I., M.D. Asst. Prof.
21 Demrs. and Asst. Demrs.

Neurology, Clin. [Clinical Prof.
Russel, C. K., B.A., M.D.
Mackay, F. H., B.A. Lectr.
1 Demr.

Ophthalmology, v. also Bact.
Byers, W. G. M., M.D., D.Sc. Prof.
Mathewson, G. H., B.A., M.D. Clinical Prof.
Tooke, F. T., B.A., M.D. Lectr.
McKee, S. H., B.A., M.D. Lectr.
4 Demrs. and Asst. Demrs.

Oto-Laryngology
Birkett, H. S., C.B., M.D. Prof.
Hamilton, H. D., M.A. Bish., M.D., L.R.C.P. and S. Edin., L.F.P.S. Glas. (O.-L. & Rhin.) Lectr.
4 Demrs. and Asst. Demrs.

Pathology
Oertel, H., M.D. Strathcona Prof.
Rhea, L. J., B.Sc., M.D. Assoc. Prof.
Crowdy, C. T., M.D. Lectr.
Scott, J. W., M.D. Lectr.
Waugh, R. T. Asst. Prof.
9 Demrs.

Pediatrics
Fry, F. M., B.A., M.D. (also Demr. in Clin. Med.) Lectr.
Cushing, H. B., M.D. Clinical Prof.
Chandler, A. B., M.D. Lectr.
Ross, S. Graham, B.A., M.D. Lectr.
Lindsay, L., M.D. Lectr.
Struthers, R. R., B.A., M.D. Lectr.
7 Demrs. and Asst. Demrs.

Pharmacy
Moore, A. B. J., Ph.G. Hd. of Dept., Prof.

Pharmacology
Stehle, R. L. Prof.
Bourne, W., M.D. Lectr.
Lewis, D. S., B.A., M.D. Asst. Prof.
Rosenthal, S. M. Lectr.
3 Demrs.

Psychiatry [Clinical Prof.
Porteous, C. A., M.D.
Mundie, G. S., B.A., M.D. Lectr.
Mitchell, W. T. B., M.D. Lectr.
2 Demrs.

Surgery [Prof.
Archibald, E. W., B.A., M.D.
Bazin, A. T., M.D. Prof.
Eberts, E. M., M.D., M.R.C.S. Eng. Assoc. Prof.
Barlow, W. L., B.A., M.D. Asst. Prof.
Keenan, C. B., M.D. Asst. Prof.
Patch, F. S., B.A., M.D. (Urology) Prof.
Mackenzie, D. W., B.A., M.D. (Urology) Prof.
Turner, W. G., B.A., M.D., M.R.C.S. Eng. (Orthop. Surg.) Prof.
Forbes, A. M., M.D. (Orthop. Surg.) Prof.
Howell, W. B., M.D. (Anæsthesia) Lectr.
Hepburn, W. G., M.D. (Anæsthesia) Lectr.
Scrimger, F. A. C., B.A., M.D. Lectr.
Tees, F. J., B.A., M.D. Lectr.
Henry, C. K. P., M.D. Lectr.
McKenty, F. E., M.D. Lectr.
Gurd, F. B., B.A., M.D. Lectr.
Nutter, J. A., B.A., M.D. Lectr. (Orthop. Surg.).
Powell, R. E., B.A., M.D. (Urology) Lectr.
10 Demrs. and Asst. Demrs.

AFFILIATED INSTITUTIONS

ACADIA, ALBERTA, MT. ALLISON, AND ST. FRANCIS XAVIER UNIVS. Students who have completed the 2-yr. course in Engin. of these Univs. are admitted directly to the 3rd yr. in McGill Engin. courses.

GRADUATES OF THE ROYAL MILITARY COLLEGE, Kingston, are admitted to the 3rd yr. in McGill Engin. courses. Graduates and students of the Mechanical Science course of CAMBRIDGE are admitted to advanced standing in the Faculty of Appl. Sc. Particulars obtainable from the Dean of the Faculty.

THEOLOGICAL COLLEGES

CONGREGATIONAL COLLEGE OF CANADA, MONTREAL. Principal, D. L. Ritchie, B.A., D.D.

DIOCESAN COLLEGE OF MONTREAL. Principal, E. I. Rexford, M.A., LL.D.

PRESBYTERIAN COLLEGE, MONTREAL. Principal, D. J. Fraser, M.A., LL.D.

WESLEYAN COLLEGE OF MONTREAL. Principal, J. Smyth, LL.D.

Students enter after graduation or pursue courses concurrently in Arts at the Univ., in Theol. at the Coll.—6 yrs. in all.

GENERAL INFORMATION (v. also p. 322)

The Hon. James McGill, of Montreal, who died in 1813, bequeathed 46 acres of land, with some buildings and £10,000, to found a college, and in 1821 the Royal Institution for the Advancement of Learning, the trustees for the purposes of the bequest, obtained a Royal Charter (amended in 1852) under which the work of teaching was begun in the Faculties of Arts and Med. in 1829. The Governors are the members of the Royal Institution above mentioned. Their number is limited to 25, and vacancies are filled by nomination of the remaining members, with the approval of the Visitor. The Govrs., Principal, and 42 Fellows (representing faculties and depts., grads., affild.

colls., and other bodies) constitute the Corporation, the highest academical body, which frames regulations. The Peter Redpath Museum was opened in 1882, the Redpath Library in 1893, Royal Victoria Coll. in 1899, the Conservatorium in 1904. Macdonald College was opened in 1907, and in 1911 Sir Wm. Macdonald purchased for the use of the Univ., at a cost of $1,117,640, 25 acres of land, destined for students' residences and athletic grounds. The same year $1,550,000 was raised for the Univ. chiefly from Montreal citizens. Sir Wm. Macdonald bequeathed nearly $2,000,000, of which $500,000 was for the Medical Faculty and $300,000 for the Conservatorium. In 1918 the Carnegie Corporation, New York, gave $1,000,000 in recognition of McGill's service and sacrifice in the Great War. In 1920 the sum of $1,000,000 was given by the Rockefeller Foundation for the Faculty of Medicine; $1,000,000 by the Provincial Govt. for general purposes; and $4,400,000 was raised from the graduates and the citizens of Montreal as a general endowment. Income from Investments, about $1,000,000.

SPECIAL FEATURES. The provision for instruction and research in Applied Science is exceptionally ample, especially in Engin. in all its branches. The Med. School also is exceptionally strong.

LIBRARIES, 242,000 vols. (Medical, 38,000; large Ophth. Dept.) and 31,000 pamphlets; Peter Redpath collection of 10,000 political and religious tracts dating from A.D. 1600; E. S. Wood Library of Ornithology; Blackader Library of Archit.; Blacker Library of Zool.; Travelling Library. LABORATORIES: Engineering and Chemistry, each accommodating 200 students; Physics; Zool., 100 students, 3 rooms specially fitted up for research; Bot., 43 students; Physiol., 80; Psych. Research; Agric. Research. FARM, Live Stock and Grain, 786 acres. Astron. OBSERVATORY. MEDICAL MUSEUM (Strathcona), said to be the finest in America; rich collection of disturbances of heart and vascular system and aneurisms. HOSPLS. available for clinics, general—800 beds, several special.

FACULTIES. Arts, Law, Medicine (including Pharmacy), Applied Science (Archit., and 6 branches of Engin.—Chem., Civil, Elec., Mech., Metall., Mining), Agric., Dentistry, Music. The Univ. has also Schools of Commerce, Physical Educn., Graduate Nurses, Social Service, a Graduate School, and (in Macdonald Coll.) Household Science and a School for Teachers.

ADMISSION. For candidates in Great Britain an examn. is held in London in June: particulars obtainable from W. A. Bulkeley Evans, M.A., 5 Paper Buildings, Temple, London, E.C.4.

DEGREE COURSES. 3 yrs.—B.C.L., Mus.Bac.; 4 yrs.—B.Com., B.A., B.Sc., B.S.A., B.H.S. (Household Science), D.D.S.; 5 yrs.—B.Arch., M.D., C.M.

B.A. or B.Sc. (Arts) course combined with B.Com., 5 yrs.; with Appl. Sc. or Theol., 6; Med., 8.

Med. students of 4 yrs.' standing of an approved institution may be admitted to the final examn. after one full session in McG. Recent grads. of approved Univs. may qualify for examns. by advanced courses or special research.

HIGHER DEGREES. Obtainable by 1 yr. of resident graduate study at McGill, thesis and examn.—M.A., M.Sc., M.S.A.; by 3 yrs. of graduate study —Ph.D.; by valuable contribution to legal science—D.C.L.; by a composition and examn. not less than 3 yrs. after taking the Mus.Bac.—Mus.Doc.; on recommendation of Board of Grad. studies—D.Sc., D.Litt.

DIPLOMAS. Lic. Mus., D.P.H., Teachers, Pharmacy, Graduate Nurses', Physical Education, Social Science.

ATTENDANCE at lectures at the Univ. or Macdonald or Affiliated Coll. is indispensable.

RECOGNITION by other Univs. v. pp. 106, 267, 276, 277, 309.

FEES. Per annual session, Arts, $100; Appl. Sc., $205; Med., $205; Dent., $210; Law, $155; Music, $180; Commerce, $150; Agriculture, residents of Canada, $50, others, $100; M.A. or Ph.D. course, $60. Graduation fee for M.A. or M.Sc., $20; Ph.D., $30; D.Sc. or D.Litt., $80.

SCHOLARSHIPS FOR GRADUATES. In Econ. and Polit. Sc., Allen Oliver, $650; Canadian Manufrs. Assocn. and the Graduate Working Fellowship, $800 each; Chem., Sterry Hunt; Geol., Le Roy, $700; Mining Research and Teaching Fellowships, 3 of $500 each; Med. Research, especially Obstetrics and Gynæc., A. A. Browne Endowment, $10,000 open to grads. of any recognized Med. school; Path. Research, J. Douglas Endowment, $25,000; any subject, "Delta Upsilon," $750; The Moyse *Travelling Scholarships*, 2 of $1500 each; Law, Macdonald Endowment, $20,000; The New Jersey Zinc Company, $1200.

RESIDENCE. Women, Roy. Vict. Coll.; men, Strathcona Hall (Y.M.C.A.), accommodation for 60. PHYSICAL TRAINING is compulsory, and students are subjected to physical examn. on entering the Univ. Board and residence in Roy. Vict. Coll., $500 per session; in private houses, $60 p.m. and upwards; rooms only, $15 to $20 p.m.

McGill Union dining-room, accommodating 120 students at a time, provides inexpensive meals.

PUBLICATIONS. *Calendar* (June); *Coll. Announcements* (May to July); *Annual Report* (Dec.); *McGill News*, quarterly, by Graduates' Soc.; *McGill Daily*, by students; *Lectures and Addresses*; Catalogue of Scientific Periodicals in Canadian Libraries, 1924, $5.

THE YEAR 1924–25

NEW BUILDINGS. Addition to Engineering Building for Electrical Eng. Dept. ($80,000).

OTHER DEVELOPMENTS. Institution of 3 years' course in Law, the whole period to be spent at the Univ. Advisory Agric. Committee appointed by the Governors. Creation of post of Dean of School of Agr. Child Laboratory, for which Laura Spelman Rockefeller Memorial trustees agreed to provide $10,000 p.a. for 5 years and a fellowship in Teachers' College, Columbia Univ., the Univ. undertaking to provide a building, staff, courses of training in child development, and co-operation of Extension Dept. for promotion of parent training. Agreement with National Committee for Training of Teachers in Scotland for interchange of student teachers (honours graduates), to commence with year 1925–26, allowance being $1200 for one year. Similar exchange with Teachers' College, Columbia Univ. Entrance standards in Applied Science and in Arts were raised. Adoption of measures for placing on students more of the responsibility for their own education. Investigation of results of University training by questionnaires addressed to graduates of two and one year's standing. Curriculum in Applied Science modified by elimination of shopwork in first year.

RESIGNATIONS. Profs. S. B. Slack and (to accept Chair of History in Univ. of Edinburgh) Basil Williams. DEATHS: H. M. Lamb, F. A. L. Lockhart, D. MacEachran, J. B. Morison, A. A. Robertson, J. Stafford, F. Slater Jackson.

HONORARY DEGREES. *LL.D.*—A. E. Boycott, E. W. Beatty, E. M. Hopkins. OTHER DEGREES: B.A., 90; B.Sc., 107; B.Com., 51; B.C.L., 10; LL.B., 2; M.D., C.M., 97; D.D.S., 40; Mus.Bac., 2; B.S.A., 14; M.A., 12; M.Sc., 28; M.S.A., 5; Ph.D., 6; B.H.S., 6.

NUMBER OF STUDENTS. Full-time, preparing for first degree, 2421, including 549 women, graduates, 134 (women—15). Foreign students, 167 (w.—15). Students residing in colleges or hostels, 203 (w.—73). Occasional students, 127 (w.—44). Taking courses not of a University standard, 912 (w.—487).

EXTENSION COURSES enrolment, 912. Summer School in French, 160.

McMASTER UNIVERSITY, TORONTO

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LIBRARIAN—DOROTHEA M. HALLFORD, B A.

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Gaiser, Miss L. O., M.A. West Ont. Lectr.

Chemistry
Walker, W. O., M A. Tor. Prof.

English
McLay, W. S. W., M.A. Harv., D.Litt. Ac., LL.D. Queen's Prof.

French
Briquet, P. E., B.A., L. ès L. Geneva and Paris Prof.

Geology
McNairn, W. H., M.A. Tor., Ph.D. Tor. Prof.

German
Mueller, P. W., B.A. Tor. Prof.

Greek
Campbell, P. S., M.A. Tor. Prof.

History
New, C. W., B.A. Tor., B.D., Ph.D. Chic. Prof.

Latin
Stevenson, J., B.A. Camb. Lectr.

Mathematics [Prof.
Findlay, W., M.A., Ph.D. Chic.

Philosophy, Psychology, Logic, and Ethics
Ten Broeke, J., M.A. Middlebury, Ph.D. Yale Prof.

Physics
Dawes, H. F., M.A. Tor., Ph.D. Tor. Prof.

Political Economy and Sociology
Michell, H., M.A. Ox. Prof.
Taylor, K. W., M.A. Chic., B.A. Lectr.

Public Reading and Speaking
Kirkpatrick, F. H., Ph.D. Spl. Lectr.

Theology

Christian Ethics, Education, and Sociology
McCrimmon, A. L., M.A. Tor., LL.D. Prof.

Church History and Missions
Brown, J. G., M.A., D.D. Prof.

Homiletics and Pastoral Theol.
Marshall, L. H., B.A., B.D. Lond. Prof.

New Test. and Patristic Greek
Farmer, J. H., B.A. Tor., LL.D. Prof.

Old Test., Hebrew and Aramaic
Parker, N. H., B.A., Th.M., Mississippi Coll. and Southern Bapt. Seminary Lectr.

Preliminary Course
Morgan, J., M.A. Tor. Spl. Lectr.

System. Theol. and Apologetics
Keirstead, E. M., B.A. New Bruns., M.A., D.D. Acad., LL.D. St. Fr. X. Prof.

Hon. Lectrs.:
MacNeill, J., B.A., D.D. (Evangelism).
Merrill, B. W., B.A., B.Th. (Rel. Educn.).

AFFILIATED COLLEGE

BRANDON COLLEGE, Brandon, Man., controlled by Baptist Union of W. Canada. Affild. for courses in Arts.

GENERAL INFORMATION (v. also p. 322)

In 1887 Toronto Baptist College and Woodstock College, Woodstock, were united under the name of McMaster University, and their already existing endowments were increased by $900,000, received under the will of the Hon. Wm. McMaster. The Board of Governors (16) are elected by the Baptist Convention of Ontario and Quebec. There is no religious test for entrance, but the Profs. and Lectrs. must be members of some evangelical church. Woodstock Coll. and Moulton Ladies' Coll., Toronto (founded in 1888), are represented on the Senate.

LIBRARY, 26,000 vols. LABORATORIES: Phys., Bio-Chem., Mineral. Science Hall has 24 lecture rooms and labs.

DEGREE COURSES. 4 or 5 yrs., B.A.; 3 yrs. (after completing 2 yrs. of Arts course), B.Th.; 6 yrs., combined B.A. and B.Th. The first 2 yrs. in Arts do not necessarily involve attendance at lectures. Brandon Coll. provides instruction in Swedish for immigrants from that country.

The B.A. degree is recognized by the Univ. of London, v. p. 106.

HIGHER DEGREES. Open to B.A. after 1-yr. course (attendance at lectures not required)—M.A.; to B.Th. who are also B.A. and have taken 3 yrs. in Hebrew, involving 1 yr. of study after graduating as B.Th.—B.D.

DIPLOMA. English Theol., 3 yrs.' course.

CERTIFICATE. Missionary Training for women.

ADULT EDUCATION. For adults who have not the necessary foundation for admission to the English Theol. or Women's Missionary course, a year of literary and biblical work qualifying for such admission is provided.

FEES. Annually, for tuition, examn., library—Arts, $75, Theol., $20. For student organizations, athletics, etc., men, $7, women, $9.

RESIDENCE. Board and room per session, men, in McMaster Hall, $240; women, in Wallingford Hall, $9 a week.

PUBLICATIONS. *Calendar* (June); *McMaster Monthly* (students' magazine); *McMaster Graduate* (pub. by Alumni Assn.), three times a year.

THE YEAR 1924–25. *Resignations*: Prof. A. J. Moon to take a post in Wm. Jewell College, succeeded by J. Stevenson from Cambridge. Prof. Swedelius, succeeded by P. E. Briquet from Vanderbilt. Prof. H. S. Curr to become principal of National Bible College, London. *Students*: Full-time, preparing for first degree, 301, including 98 women; graduates, 44 (women—7). Resident in colleges or hostels, 118 (w.—30). Occasional, 55 (w.—22). Taking courses not of univ. standard, 10 (w.—1). *Degrees obtained*: B.A., 50 (w.—18); M.A., 6 (w.—1); B.Th., 5.

UNIVERSITY OF MANITOBA, WINNIPEG

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Agriculture, v. *infra*

Anatomy, v. also Med.-Surg.

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McGibbon, R. T., M.B., Ch.B. Glas. Asst. Prof.
Wheeler, D., M.A., M.D., C.M., M.R.C.S. Eng., L.R.C.P. Lond. Lectr.
M'Rae, D. F., M.P., C.M. Demr.
Isaacs, H. D., M.D. Demr.
Boyle, S. F., M.D., C.M. Demr.
4 Student Demrs.

Architecture

Stoughton, A. A., Ph.B. Col. Prof.

Bio-Chemistry

Cameron, A. T., M.A., B.Sc. Edin., F.I.C. Prof.
White, F. D., Ph.D. Edin., F.I.C. Lectr.
Kitchen, H. D., M.D., C.M. Lectr.

Botany

Buller, A. H. R., B.Sc. Lond., D.Sc. Birm., Ph.D. Leip., LL.D. Prof.
Roberts, H. F., B.A. Kans., LL.B. N.-Wstn., M.Sc. Kans. (Agr.) Asst. Prof.
Lowe, C. W., M.Sc. Birm. Lectr.
1 Demr. and 4 Student Assts.

Chemistry

Parker, M. A., B.Sc. Glas., LL.D., F.I.C. Prof.
Armes, H. P., B.Sc. Leeds, Ph.D. Stras. Asst. Prof.
Shipley, J. W., M.A., Ph.D. Harv. Asst. Prof.
Hiebert, P. G., M.A. Tor., M.Sc., Ph.D. McG. Lectr.
4 Demrs. and 3 Student Assts.

Classics

Clark, F. W., Ph.D. Chic., B.A. Prof.
Hugill, W. M., B.A. Tor. Asst. Prof.
Tracy, H. L., B.A. Tor., Ph.D. Chic. Asst. Prof.

Engineering, Civil

Finlayson, J. N., M.Sc. McG., M.E.I. Can. Prof.

Asst. Profs. :
Moffatt, R. W., B A.Sc. Tor., A.M.E.I. Can.
Macdonald, A. E., M.Sc. McG.
Herriot, G. H., B.Sc. Qu., D.L S., M E.I.C.

Lectrs. :
Scott, W. M., B.A.Sc. McG., M.E.I.C.
Riddell, W. F., B.Sc (C.E.)
3 Demrs.

Engineering, Electrical
Fetherstonhaugh, E. P., B.Sc. McG., M.E I.C., A.M.A.I.E.E. Dean of Fac. Prof.
Dorsey, J. W., E.E. Lehigh, A.M.E.I.C. Asst. Prof.
1 Demr.

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Hall, N. M., O.B.E., B.Sc. McG., M.E.I.C. Asst. Prof.

English
Crawford, A. W., M.A. Tor., Ph.D. Corn. Prof.
Perry, A. J., M A. Yale Asst. Prof.
Allison, W. T., M.A. Tor., Ph.D. Yale Asst. Prof.
Woodhouse, A. S. P., B.A. Tor., A.M. Harv. Asst. Prof.
Argue, R. F., M.A. Lectr.
Thompson, D. W., A.B. Dickinson, A.M. Harv. Lectr.

French
Osborne, W. F., M.A. Tor. Prof.
Evans, D. O., Dr. ès L. Paris, D.Phil. Ox. Asst. Prof.
Ballu, Céline A., B.A. Wisc. Lectr.
Haynaud, A. Marie, B.A. Qu. Lectr.
Allard, H., B.A. Instr.

Geology and Mineralogy
Wallace, R. C., M.A., D.Sc. Edin., Ph.D. Gött., F.G.S. Prof.
De Lury, J. S., B.A. Tor., Ph.D. Minn., M.A.I.M.E. Asst. Prof.
Fraser, H. J., B.Sc. Asst.
1 Demr.

German
Heinzelmann, J. H., B.A. Ill, Ph.D. Chic. Prof
Jones, Mrs. Anna C. A. Asst.

History
Martin, C. B., M A. N. Bruns., M.A., B.Litt. Ox. Prof.
Harvey, D. C., B.A. Dal., M.A. Ox. Asst. Prof.
Howe, J. E., B.A. Yale, M.A. Acad. Lectr.
MacDonnell, Mrs. U. N., M.A., Ph.D. Qu. Lectr.

Law, v. *infra*—Affiliated Colleges

Mathematics
MacLean, N. B., M.A. Tor., Ph.D. Chic. Prof.
Wilson, N. R., M.A. Tor., Ph.D. Chic. Prof.
Warren, L. A. H., M.A. Qu., Ph.D. Chic., F.R A.S. Asst. Prof.
Tier, W., M.A. Tor., Dean of Fac. of Arts Asst. Prof.
Nowlan, F. S., M.A. Harv., Ph.D. Chic. Asst. Prof.

Pharmacy [Prof.
Bletcher, H. E., B.Sc. (Phar.)
1 Asst.

Philosophy
Lodge, R. C., M.A. Ox. Prof.
Wright, H. W., B.A., Ph.D. Corn. Prof.

Physics [Prof.
Allen, Frank, M.A. N. Bruns. & Corn., Ph.D. Corn., LL.D.
McClung, R. K., B.A. Camb., M.A., D.Sc. McG. Asst. Prof.
Young, J. F. T., M.A. Tor., Ph.D. Tor. Asst. Prof.
4 Demrs. and 2 Student Assts.

Physiology, v. Medicine

Political Economy
Clark, A. B., M.A. Edin. Prof.
Jones, R. F., M.A. Liv. Asst. Prof.
Elliott, G. A., M.A. Asst.

Zoology
O'Donoghue, C. H., D.Sc. Lond., F.Z.S. Prof.
Riley, C. F. C., M.A. Doane, B.S. Mich., M.S. Ill. Asst. Prof.
Neave, F., B.Sc. Manchester Lectr.
2 Demrs. and 1 Student Asst.

Agriculture

[at Manitoba Agricultural College]

McKillican, W. C , B.S.A. Tor. Dean.

Agricultural Engineering
Shanks, G. L., B.S.A. Prof.

Animal Husbandry
Wood, G. W., B.S.A. McG. Prof.
Brown, J. M., B.S.A. Tor. Asst. Prof.
Sommerfeld, H. B., M.S. Wisc., B.S.A. Asst. Prof.

Animal Pathology
Savage, Alfred, B.S.A. McG., D.V.M. (Corn.) Prof.

Bacteriology
Lee, C. H., M.A. Tor. Prof.

Biology
Jackson, V. W., B.A. Qu., M.S. Minn. Prof.

Chemistry
Geddes, W. F., B.S.A., M.A. Tor. Prof. (Agr. Chem.).
Munro, L. A., M.A. Dal., Ph.D. McG. Asst. Prof.

Clothing and Textiles
Groff, Clara Louise, B.S. Col. Lectr.
McFadden, Eleanor G., B.S. Ames. Lectr.

Dairy Husbandry
Brown, R. W., B.S.A. Tor. Prof.
James, N., B.S.A. Tor., M.S. Ames. Asst. Prof.

Education [Lectr.
Moxon, Mary C., Ph.B. Chic.

English
Sproule, G. A., B A. Tor. Prof.
Hopper, C. R., M.A. Asst. Prof.

Entomology
Mitchener, A. V., B.A. McM., B S.A Tor. Asst. Prof.

Farm Management
Grant, H. C., B.S.A. Asst. Prof.

Field Husbandry
Harrison, T. J., M.S. Minn., B.S.A. Prof.
Southworth, W., B.S.A. Tor., M.S.A. Corn., F L.S. Prof.
Ellis, J. H., B S.A. Asst. Prof.
Wiener, W. T. G., M.S. Minn., B S.A. Asst. Prof.

Home Economics
Duncan, Mrs. L. C., Ph.B. Chic., M.A. Director.
M'Lauchlin, Florence, B.Sc. (H. Ec.) Lectr.

Horticulture and Forestry
Brodrick, F. W., B.S.A. Tor. Prof.

Household Art
South, Mrs. Jean Lectr.

Nutrition [Asst. Prof
Hiltz, Mary C., B.S. Col.

Physical Education
Youmans, R. W. Director.

Physics
Lee, S. C., M.A. Tor. Prof.
Thomson, W. A., B.S.A. Sask. Lectr. (Phys. and Maths.).

Plant Pathology
Bisby, G. R., B.S. So. Dak., M.A. Col., Ph.D. Minn. Prof.

Poultry Husbandry
Herner, M. C., B.S.A. Tor. Prof.
Hutt, F. B., B.S.A. Tor., M.S. Wisc. Lectr.

Rural Sociology and Civics
Murchie, R. W., M.A. Glas. Asst. Prof.
6 Instrs. and an extension service staff of 6.

Medicine (for subjects of first 2 yrs.—Anat, etc., v. *supra*)

Bacteriology and Hygiene
Douglas, A. J, B.A, M.D., C.M. (Hygiene) Prof.
Cadham, F. T., B.A., M.D. (B. and Serology) Assoc. Prof.
Fraser, M. S., B.A., M.D., C.M. (Hygiene) Lectr.
McCowan, W. P., B.A., M.B. Lectr. (Bact.).
2 Demrs.

Gynæcology
Simpson, R. M., M.D, C.M., L.R.C.P. Lond., M.R.C.S. Eng., F.A.C.S. Prof.
Mackay, D. S., O.B.E., M.D., C.M., F.R.C.S. Edin., F.A.C.S. (Clin. G.) Assoc. Prof.
Pullar, J., B.A., M.D., C.M. Assoc. Prof.
McQueen, J. D., D.S.O., M.D., C.M., F.A.C.S. Lectr. in G. and Assoc. Prof. of *Obstetrics*.
M'Kinnon, F. L., M.C., B.A., M.D., F.A.C.S. Lectr.
Gorrell, J. A., B.A., M.D., C.M. Lectr.

Hygiene, v. Bacteriology

Laryngology and Otology
Prowse, S. W., B.A., M.D. Edin., F.R.C.S. Edin., F.A.C.S., Dean of Fac. Prof.
Fletcher, G. W., M.D., F.A.C.S. Assoc. Prof.
Leishman, A., M.D. Assoc. Prof.
Washington, E. J., M.D. Assoc. Prof.
2 Demrs. in O.

Medicine and Clinical Medicine
Montgomery, E. W.. M.A., M.D., C.M., F.A.C.P. Prof. of Clin. Med.

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Burridge, A. J., M.D., F.A.C.P. (Therap.).
Davidson, J. R., B.A., M.D., C.M.
Hunter, C., M.A, M.D, M.R.C.P. Lond. (Therap)
Hart, F., M.D, C.M., M.R.C.S., L.R.C.P.
Rogers, W., B.A., M.D., C.M., F.A.C.P.
Gilmour, C. R., M.D, C.M.
Moorhead, E. S., M.B., B.Ch. Dub.
Young, F. A., O.B.E., B.A., M.B., F.A.C.P.
Chestnut, W., M.D., C M.
Moody, A. W., M.D., C.M., F.A.C.P.
Stewart, D. A., B.A., M.D.
Mathers, A. T., M.D., C.M. (Psychiatry).

Asst. Profs. of Med.:
Alexander, A. B., B.A., M.D.
Ferguson, R. G., B.A., M.D.
Warner, N. W., M.D.
Adamson, J. D., M.D.
Mackay, H., M.D., C.M. (Dermatology)

Lectrs. in Med.:
Benner, F., M.D., C.M.
Campbell, S., C.M.G., M.D.
Murdoff, H. M., M.D., F.A.C.P.
Macdonald, D. A., M.D.
Olson, B. H., B.A., M.D.
McMillan, J. C., M.D., F.A.C.P. Lectr. in Roentgenology and Electro-therapy.
Davidson, A. M., M.D. (Dermatology)
Dey, W. F., M.B.
Pritchard, J. E., M.D.
Swan, R. R., M.B., Ch.B.
Walker, S. B., M.R.C.P. and S. (Eng.), L.R.C.P. (Lond.)
10 Demrs.

Medical Jurisprudence
Cameron, H. M., B.A., M.D. Lectr.

Obstetrics, v. also Gyn.
McCalman, D. H., B.A., M.D., C.M. Prof.
Bjornson, O., M.D., C.M., F.A.C.S. Assoc. Prof.

M'Queen, J. D, D.S.O., M.D., C.M., F.A.C.S. Assoc. Prof.
Mitchell, R. B., B.A., M.D., C.M., F.A.C.S. Assoc. Prof.

Lectrs. in Clin. Obstet.:
Coulter, J. E., M D., C.M., F.A.C.S.
Campbell, W. G., M.D., C.M.
Abbott, W. F., M.C., B.A., M.D., C.M.
Allum, A. W., M.D.
McGuinness, F. G., M.D.
Arthur, C. L. T., M.D.

Ophthalmology
Smith, W. H., M.A., M.D., C.M., F.A.C.S. Prof.
Bell, T. H., M.C., M.D., C.M., F.A.C.S. Assoc. Prof.
Bell, P. G., B.A., M.D., F.A.C.S. Assoc. Prof.
Stefansson, J., M.D. Lectr.

Pathology
Boyd, W., M.D., M.R.C.P. Edin., Dipl. Psych. Prof.
Nicholson, D., M.D., C.M., M.R.C.P. Lond. Asst. Prof.

Pediatrics
Rorke, R. F., M.D., C.M. Assoc. Prof.
MacArthur, C., M.D. Lectr.
Norton, E. L., M.B., B.Sc. Lond. Lectr.
2 Clin. Demrs.

Physiology and Pharmacology
Moorhouse, V. H. K., M.C., B.A., M.B. Tor. Prof.
Austmann, K. J., M.A., M.D. Asst. Prof.
Lougheed, M. S., B.A., M.D., C.M., B.Sc. Ox. Lectr.
Mackersie, W. G., M.B., B.Sc. (Med.) Tor. Lectr.
2 Student Demrs.

Surgery and Clinical Surgery
Halpenny, J., M A., M.D., C.M., F.A.C.S. Prof.

Assoc. Profs. of Clin. Surg.:
Brandson, B. J., B.A., M.D, C.M., F.A.C.S.
Campbell, A. M., B.A., M.D, C.M.
Fletcher, R. D., M.A., M.D., C.M., F.A.C.S. (Urology).
Galloway, H P. H., M.D., C.M., F.A.C.S. (Orthop.).
Gibson, A., M.B., Ch.B., F.R C.S, F.A.C.S. (Orthop.; also Lectr. in Applied *Anatomy*).
Gunn, J. A., C.B., O.B.E., B.A., M.D., F.A.C S.
Lehmann, J. E., M.D., F.A.C.S.
Maclean, N. J., M.D., F.A C.S.
McKenty, J., M D., C.M., F.A.C.S.
Webster, W., M.D., C.M. (Anæsthetics).
Elkin, S. J., M.D , C.M.
Waugh, O. S., M.D., C.M., F.A.C.S.

Lectrs. in Clin Surg.:
Gardner, W. A., B.A., M.D., C.M., F.A.C.S. (Orthop.).
Hamilton, T. G., M.D., F.A C.S.
Mann, W. L., B.A., M.D., C.M.
McIvor, N. K., M.D., F.A.C.S.
Musgrove, W. W., M.D., C.M., F.A.C.S.
Murray, A. A., M.D., F.A.C.S. (Orthop.).
Boardman, E. J., M.D. (Urology).

Lectrs. in Surg.:
McEachern, J. D., M.D.
McIntyre, D. F., M.D., F.A.C.S.
Fahrni, G. S., M.D., C.M., F.A.C.S.
Burns, C. W., B.A., M.D., C.M.
Secord, W. H., M.D., C.M.
8 Demrs. in Clin. Surg.

Therapeutics, v. Medicine

AFFILIATED COLLEGES represented on the Council, the first four having power to confer degrees in Divinity:

ST. BONIFACE COLLEGE, St. Boniface (R.C.). Rector—H. Bourque, S.J. (Building destroyed by fire, Nov. 25, 1922.)

ST. JOHN'S COLLEGE, Winnipeg (C. of E.). Warden—Rev. G. A. Wells, C.M.G., M.A.; Registrar—W. Burman, B.A.

MANITOBA COLLEGE, Winnipeg (United Ch. in Canada). Principal—John MacKay, M.A., D.D.; Registrar—Prof. J. Dick Fleming, Ph.D.

WESLEY COLLEGE, Winnipeg (United Ch. in Canada). Principal—J. H. Riddell, D.D., LL.D.; Registrar—A. Stewart Cummings, B.A.

MANITOBA LAW SCHOOL, Winnipeg. Chairman of Trustees—Hon. H. A. Robson, LL.D.; Dean—J. T. Thorson, B.A. Ox., LL.B.; Recorder—R. J. Russell.

GENERAL INFORMATION (v. also p. 322)

Established in 1877 mainly as an examining and degree-conferring body, the Univ. was in 1900 empowered to give instruction. In 1917 a Board of Governors, appointed by the Lieut.-Govr., was constituted, and the functions of the Univ. Council, until then the governing body and composed largely of representatives of the affiliated Colleges, were limited to general charge of the academic work. The Univ. has the sole power of conferring degrees in Arts, Science, Law, Med., Engin., Pharmacy, Agric., and Archit. in the province. It received in 1898 from the Dominion Govt. a land grant of 150,000 acres.

Winnipeg, the capital of Manitoba, with its environs, including the neighbouring city of St. Boniface, has a population of over 270,000. Most of the university buildings at present occupy a site in the heart of the city. The Agricultural College is at Fort Garry, 7 miles distant.

LIBRARY, 39,500 vols.; 450 periodicals received. In the Medical building is housed the library, 2000 vols. of the Manitoba C.P.S. The Agric. College has a library of 6700 volumes, and receives 142 periodicals. LABORATORIES: Anat., Bact., Bot., Chem., Engin. (Material testing—200,000 lbs., Cement, Elec.), Geol. and Mineral., Path., Physics, Physiol., Zool. MUSEUMS: Anat., Embry., Bot., Geol., Path. HOSPITALS available for clinics: 2 general (1000 beds) and several special, including tuberculosis. FARM on Agric. College estate (676 acres).

FACULTIES. (1) An Arts and Science Faculty providing instruction in all subjects of undergraduate courses in Arts (except 5 options), Science, and Phm. (2) Medicine. (3) Engineering and Archit. (4) Agriculture and Home Economics. Other subjects of Arts course and Law are taught in the affiliated Colls.

MATRICULATION examns. are conducted in June by the Provincial Educ. Dept. and in Sept. by the Univ. Matricn. examn. subjects for Arts or Science courses are English, Hist., Maths., Latin or Greek or French or German; a second language or 2 of the following—Physics, Chem., Genl. Science I., Genl. Science II.; a third language or 2 sciences not already taken, or 1 science not already taken with Home Econ. or Indust. Arts or Music or Agric. or Comml. work. Exemption is allowed from examination for Matricn. standing in the subjects of Part I. (Grades IX. and X.) Matricn. to pupils of the Collegiate Institutes of the province, or of the Preparatory schools in connexion with the affiliated Colleges, who are recommended for such exemption by their school principals. Entrance requirements for Medicine are clear standing of two pre-medical years in Arts and Science; for Law standing of 2nd year in Arts, with Latin to the end, at least, of the 1st yr.; and for Engineering standing of one pre-engineering year in Arts and Science. Members of any British or approved Univ. may be admitted *ad eundem statum* or *gradum* without Entrance examn.

DEGREE COURSES. 4 yrs.—B.A., B.Sc., B.Sc. (C.E. or E.E.), B.Sc. (Phar.), B.Arch.; 3 yrs., following 2nd yr. in Arts or its equivalent—LL.B.; 5 yrs., following 2 pre-medical yrs.—M.D.; 5 yrs.—B.A. (Hons.), B.Sc. (Hons.), B.S.A., B.Sc. (H.Ec.). Graduates in Med. of at least 2 yrs.' standing with certain prescribed training and experience may obtain C.M. on passing written, oral, and practical examn., and presenting a satisfactory thesis.

ATTENDANCE at lectures is obligatory for all except extra-mural students. Extra-mural students may not take courses in Med., Sc., Arch., or Engin., or any course in Arts involving oral, practical, or lab. work, nor may they appear at examns. without permission of the Bd. of Studies. Extra-mural registration in Arts is limited to students resident in Manitoba, and a minimum of 1 yr.'s attendance at this or another approved Univ. is exacted before the B.A. is conferred.

A UNIT SYSTEM has been adopted in the Arts and Science Faculty, the unit being " a body of work to which is assigned for instructional purposes one hour of lecture or other class-room exercise per week or one continuous laboratory period of 2 or 3 hours per week, throughout an entire session, or the equivalent." 40 units of credit in the " Junior Division " (work normally done in first two sessions) and 32 in the Senior Pass Division (for Honours, 48 in the Senior Honours Division) are required for the degree. For the B.A.—English (2 yrs.), a foreign language (2 yrs.), Maths. (1 yr.), and History (1 yr.) are compulsory.

The M.A. may be obtained by an extra year of full-time study under the direction of a committee of instructors. A thesis is required as well as examn.

The M.Sc. requirements are at least one yr's. grad. work in one or more of the Sc. depts. of the Univ. (incl. Maths.) or in the dept. of Civil Engin. or that of Elect. Engin., an examn. and a thesis. While taking the LL.B. course a student may simultaneously obtain the Law Society's qualification for practice. An extra-mural course in Law may be taken by students residing in Manitoba elsewhere than in Winnipeg or environs, and by graduates in Arts of an approved Univ. residing elsewhere. The LL.D. is honorary.

In the B.Sc. Engineering courses summer work and thesis relating thereto are required.

2 yrs.' service in an Architect's office following graduation (B.Arch.) will qualify for licence to practise.

DIPLOMAS. Pharmaceutical Chemistry (2 yrs.' course); Agriculture (3 yrs.). In *Dentistry* the Univ. is the sole examining body in the province. The Univ. conducts examns. for admission to the Man. Assocn. of Graduate *Nurses*, to the practice of *Accountancy* and membership of the Inst. C.A. of Manitoba, to the practice of *Architecture* and membership of the Man. Association of Archts.; also qualifying examns. for the Man. Civil Service.

FEES. Tuition and examn. in Arts and Sc., $60 p.a.; Engin. and Arch., $90; Phm.Dipl. course, $85; Degree course (4 yrs.), $60, $85, $85, $85; Med., $160; Law, $108. Licence to practise Med., $100. Agr.Dipl. course, $38; Degree course, $38 (1st and 2nd yrs.) and $63 (3rd, 4th and 5th yrs.); Home Economics, Degree course, $38, $38, $48, $48, $48.

SCHOLARSHIPS for graduates: 2 Travelling Fellowships, each $500, offered each yr.: one to a graduate in Arts, and, in alternate years, one in Science and one in Engineering, tenable at some other seat of learning; Fellowship, $500 awarded annually in Hist. and Pol. Sc.; Research Fellowship, $1500 annually in Sc.

RESIDENCE. Hostels at all affiliated Arts Colls. and Agr. Coll.

INTERCHANGE of teachers for a few days and conference annually with Univs. of N. Dakota, Sask., and Alberta.

UNIVERSITY EXTENSION. (1) Winter Evening Business courses in Acctcy., Comml. Law, Business English, Life Insurance, etc., given partly by members of regular Univ. staff. (2) Short courses of lectures, conferences, and class work for Retail Merchants, at Winnipeg and Brandon. (3) Short courses in Med. and Surg. for practitioners. (4) Popular lectures in numerous centres. (5) Radio popular lectures, weekly. (6) Course for Public Health nurses. (7) Summer School. (8) A 2 weeks' Rural Leaders' course at Man. Agric. Coll., also a number of short courses in Agric. Eng., Marketing, Hort., Beekeeping, Dairying, etc.

PUBLICATIONS. *Calendars* (July), Matricn., and the several faculties, free; *Manitoban* (students' paper), weekly; *Annual Report*, Historical notes (1877–1917); *Inaugural and Convocation Addresses*; *List of Faculty Publications*; *Final Year Examn. Papers*, 50 c.

THE YEAR 1924–25

BENEFACTIONS. Govt. Grant, $288,000. Endowment established by contributions from Man. Med. Alumni Assoc., the C.P. and S. of Man., members of the Faculty of Med. and of the "Old Faculty" of Man. Med. Coll. to create the *Prowse Prize* in Med., consisting of a bronze medal and $250 in cash.

CHANGES IN CURRICULUM. Introduction of Unit System in Arts and Science (*vide supra*). Changes made in curriculum for Pre-Medical students and for Pre-Engineering students.

RESIGNATIONS. F. C. Green, Asst. Prof. of French, to accept Professorship at Rochester Univ., succeeded by D. O. Evans from Oxford; T. Ingvaldsen; G. C. Haddow, Lectr. in English, to become Fellow at Toronto, succeeded by D. W. Thompson from Harvard; M. E. J. Richard, Lectr. in French, to study in France; Eileen Bulman (Mrs. A. C. Abbott), Lectr. in Zoology, succeeded by F. Neave, formerly Asst. at Manchester; C. B. Clevenger, Prof. of Agr. Chem., to take position in Soils Research Chem. at Univ. of Wyoming; Ina L. Roberts; A. E. Horner; D. B. Shutt; S. G. Lipsett. DEATH: C. F. Cameron.

OTHER IMPORTANT OCCURRENCES. Degrees of B.Sc. in Med. established. New regns. adopted governing Univ. Trav. Fellowships. A site provided on the Agric. Coll. grounds for a Plant Path. Lab. and Greenhouses to be erected and equipped by the Dom. Dept. of Agric. for study of wheat rust. An arrangement for clinical teaching at St. Boniface Hosp. Dr. Margaret Rioch apptd. Med. Research Fellow for 1 yr. from Jan. 1, 1925. Combined B.Sc.-M.D. course withdrawn.

EXTENSION WORK. Total enrolment 1262. Summer School (6 wks. July and Aug.), 610; short course for Retail Merchants, 406; winter evening Business courses, 177 students (12 instrs.); Nurses' course, 69; popular lectures in 65 centres outside Winnipeg, 127; several lectures each week from Oct. to Apr. were broadcasted.

STUDENTS. Full-time, total, 1928, including 602 women, of whom 14 (women—2) were graduates. Extra-mural, 204 (w.—105) undergraduate and 61 (w.—18) graduate. Taking courses not of university standard, 962. DEGREES OBTAINED: B.A., 175 (w.—91); B.Sc., 15 (w.—2); LL.B., 15 (w.—1); M.D., 55 (w.—9); B.S.A., 10; B.Sc. (H.Ec.), 6 (w.); B.H.Ec., 6 (w.); B.Sc. (C.E.), 6; B.Sc. (E.E.), 14; B.Arch., 1; M.A., 19 (w.—6); M.Sc., 4; Dip.Phm., 18.

MONTREAL UNIVERSITY

PATRON—S.E. Cardinal G. VAN ROSSUM.

CHANCELLOR—S.G. Mgr. P. BRUCHÉSI, D.Th., Archbishop of Montreal; ACTING—S.G. Mgr. GEORGES GAUTHIER, Archbishop of Tarona, Apostolic Administrator, O. L. d'H.

RECTOR—Mgr. V.-JOSEPH PIETTE, P.A.

PRESIDENT—Sir LOMER GOUIN, LL.D., K.C.M.G.

PRESIDENT OF THE EXECUTIVE COMMITTEE—Hon. F. L. BÉIQUE, LL.D.

VICE-RECTOR—Canon E. CHARTIER, M. ès A., L. ès L., D.Ph.

SECRETARY-GENERAL—E. MONTPETIT, B.A., LL.D., K.C., D.S.P. Paris, membre de l'Ac. roy. lang. et litt. françaises de Belgique, Chev. O. Léop., chev. L. d'H.

TREASURER—O. ARCHAMBAULT.

LIBRARIAN—A. FAUTEUX, B.A.

PROFESSORS, LECTURERS, ETC.

Agriculture, v. Affiliated Instns.

Anatomy, v. also Med. Histology

Mignault, L. D., M.D. Prof.
Delorme, L. N., M.D. Prof.
Latreille, E., M.D. (A. Path.) Prof.
Virolle, E., M.D. Lectr.

Applied Science, v. Affiliated Instns.

Art, History of

Lagacé, J. B., M.A. Prof.

Biology [Prof.

Dalbis, L. J., D. ès Sc. Paris

Botany

Victorin, Marie, D.Sc. Prof.

Chemistry, v. also Affiliated Instns.

Baril, G. H., M.D. Prof.
Morin, L. J., M.A., L. ès Sc. Paris Prof.*
Nadeau, H., L. ès Sc. Paris Lectr.
Flahaut, J., L. ès Sc. Lille Lectr.
Riou, P. Lectr.

Classics

Chartier, Can. E., M. ès A., L. ès L. Paris Prof.*
Dombrowski, H., Ag. des L. Paris (Prof. of French Lit.) Prof.
Maurice, O., D.Th., L. ès L. Paris Prof.

Commerce, v. Affiliated Instns.

Dental Science

Dubeau, E., D.C.D. Prof.*
Nolin, J., D.C.D. Prof.
Gendreau, J. G. A., D.C.D. Prof.
Duhamel, J. A., M.D. Prof.
Dufresne, G. A. H., M.D. Prof.
10 Profs. agrégés, 8 Clinicians and Demrs.

Economics, v. Social Sciences

Engineering, v. Affiliated Instns.

English Lang. and Lit.

Atherton, W., LL.D. Prof.

French Literature, v. Classics

Geography [Prof.

Tessier-Lavigne, Y., L.Sc. Soc.

Geology, v. also Affiliated Instns.

Mailhot, A., I.C. Prof.

History

Désy, J., LL.L., D.S.P. Paris Prof. of Comml. and Genl. H.

* Dean of the Faculty.

Groulx, L., M.A., D.Th. Prof.
..... Lectr.

Journalism, v. Social Sc.

Mathematics
Beaupré, V. E., B.A., I.C. Prof.
Léveillé, A., B.A. Lond. Prof.

Medicine, v. *infra*

Mineralogy, v. Applied Sc.

Modern Languages
Jasmin, H., D.Ph., D.Th., L.E.S., M.A. Prof.

Music
Letondal, Arthur Prof.
Poirier, Benoît Prof.
Charbonneau, J. N.
Head of Schola Cantorum.

Philosophy
Perrin, L., D.Th., D.Ph., D.D.C., M.A. Prof.*
Pineault, L., D.Th., D.Ph., M.A. Prof.
Forest, C., Ph.M. Prof.
Gauthier, O., D.Th., Ph.D. Prof.
Jasmin, L.-D., B.A., Ph.D., LL.D. Prof.
Lamarche, A., D.Th., D.Ph. Prof.
Vanier, G., B.A., LL.L. Prof.
Hébert, E., D.Th., D.Ph. Prof.

Physics
Gendreau, E., L. ès Sc. Paris, Ph.D., M.D. Prof.
Demers, J., B.A. Lectr.

Physiology
Asselin, E. G., M.D. Prof.

Social Sciences, Economics, and Politics, v. also Geog., Hist., and Law
Montpetit, E., K.C., LL.D., D.S.P. Paris.
Prof. of Econ., Pub. Finance and Statistics, Director of the School.
Baudouin, J. A., M.D. Prof.
Doré, V. Prof.
Vanier, G., LL.L. Prof.
Pelletier, G., LL.L. (Journalism) Prof.
Fauteux, N. (Journalism) Prof.
Rinfret, F. (Journalism) Prof.
Leduc, A., LL.L. (Journalism) Prof.
Saint-Pierre, A. Lectr.
Baudouin, J. A., M.D.
Lectr. (Applied *Social Hygiene*).
4 Profs. agrégés.

Theology
Allard, R., D.Th. Prof.
Dorvaux, J. E., D.Th., D.Dr. Can. Prof.
Dubeau, A. Prof.
Duchein, F., D.Th. Prof.
Filion, E. Prof.
Gattet, B. M., D.Th. Prof.
Gauthier, H., D.Th. Prof.
Jeannotte, H. J., D.Th. Prof.
Lesieur, R. Prof.
Shane, G., D.Th. Prof.
Savignac, E., D.Th. Prof.
Yelle, E. Prof.
Ouellette, J.-B. Prof.
Desrosiers, J.-B. Prof.
Lépine, Emile Prof.

Veterinary Science
Daubigny, T., M.V.
Director of the School & Prof.
Généreux, D., M.V. Prof.
Lorrain, L. P. H., M.V. Prof.
Dauth, A., M.V. Prof.
6 Profs. agrégés.

Law

Administrative and Munic. L.
Baudouin, G., LL.D. Prof.

Civil L.
Demers, Hon. L. P., LL.D., J. of High Ct. Prof.
Lafontaine, Hon. E., LL.D., Ch. J. Ct. of App. Prof.

Civil Procedure [Prof.
Taschereau, R., LL.D., K.C.
Genest, R., LL.D. Lectr.

* Dean of the Faculty.

Comml. and Marit. L.
Perrault, A., LL.D., K.C. Prof.

Const. L.
Cousineau, Hon. P., LL.D., J. of High Ct. Prof.

Social Sciences, Economics
Montpetit, E., B.A., LL.D., K.C., D.S.P. Paris Prof.

Criminal L. [Prof.
Morin, L. J. S., LL.D., K.C.

Financ., Comml., and Indust. L.
Pérodeau, Hon. N., LL.D. Prof.
Gouin, L. M., LL.D. Lectr.
Gérin-Lajoie, A., LL.D. Lectr.
Faribault, R., LL.L. Lectr.

Internat. L. and Hist. of L.
Lemieux, Hon. R., LL.D., K.C. Prof.

Notarial Procedure
Morin, V., LL.D. Prof.

Roman L.
Beaulieu, E., LL.D., K.C. Prof.

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology
Bernier, A., M.D. Prof.
Aubry, H., M.D. Lectr.

Contagious Diseases
Leduc, J., M.D. Prof.
Delvecchio, P., M.D. Lectr.

Deontology and History of Med.
Fortier, L. E., M.D. Prof.

Dermatology and Syph.
Décarie, J. D., M.D. Prof.
Archambault, G., M.D. Prof.
Toupin, J. R., M.D. Lectr.

Gynæcology
Harwood, L. de L., M.D. Prof.*
Ethier, A., M.D. Prof.
Trudeau, R., M.D. Lectr.

Histology and Path. Anat.
Dalbis, L. J., D.S. Paris Prof.
Jutras, L., M.D. Lectr.

Hygiene
Valin, N., M.D. Prof.
Baudouin, J. A., M.D. Prof.

Legal Med.
Derome, G. W., M.D. Prof.

Medicine
Guérin, J. J., M.D., M.Ch., LL.D. Dub., K.C.St.Gr. Prof.
Benoit, E. P., M.D. Prof.
Dubé, E., M.D Prof.
Lesage, A., M.D. (M. and Path.) Prof.
Bruneau, T., M.D. Lectr.
Lebel, H., M.D. Lectr.
Léger, A., M.D. Lectr (M. & Path.).
Robichaud, P., M.D. Lectr.
Riopelle, P. E., M.D. Lectr.
Hamel, G., M.D. Lectr.
Hébert, R., M.D. Lectr.
Rouleau, A., M.D. Lectr.
Verner, L., M.D. Lectr.

Mental Diseases
Tétreault, A., M.D. Prof.
Lefebvre de Bellefeuille, G., M.D. Lectr.

Neurology
Prévost, A., M.D. Prof.

Obstetrics
De Cotret, E. A. R., M.D Prof.
Langevin, S., M.D. Lectr.

Ophth., Ot. and Rhino-Lar.
Foucher, A. A., M.D. Prof.
Boulet, R., M.D. Lectr.

Pathology and Clin. Surg., v. also Med.
Parizeau, T., M.D. Prof.
Bourgeois, B., M.D. Prof.
Bernier, A., M.D. Prof.

Pediatrics
Masson, R., M.D. Prof.
Ferron, A., M.D. Lectr.

Pharmacy
Contant, J., D.Phm. President of the School & Prof.
Lecours, J. E. W., L Phm. Prof.

* Dean of the Faculty.

Laurence, A. J., L.Phm. Sec.-Dir. of the School &	Prof.
Lanctot, H , L Phm.	Prof.
Vadboncœur, E , L.Phm.	Prof.
Quintin, A. D., L.Phm.	Prof.
Boutin, J., L.Phm.	Prof.
Flahaut, J., L. ès-S. Lille	Prof.
Pilon, H.. L.Phm.	Prof.
6 Profs. agrégés.	
Phthisiotherapy	
.....	Prof
Jarry, A., M.D.	Lectr.
Verschelden, L., M.D	Lectr.
Propædeutics	
Hébert, R., M.D.	Prof.
Radiology, etc.	
Panneton, J. E., M.D.	Prof.
Pariseau, L., M.D.	Lectr.
Surgery, v. also Path.	
Mercier, O. F., M.D.	Prof.
Marien, A., M.D.	Prof.
Ethier, E., M.D.	Prof.
Saint-Jacques, E., M.D.	Prof.
Hingston, D., M.D.	Lectr.
Demers, A., M.D.	Lectr.
Gagnon, A., M.D.	Lectr.
Dufresne, E., M.D.	Lectr.
Derome, A., M.D.	Lectr.
Saint-Pierre, A., M.D.	Lectr.
Derome, W., M.D.	Lectr.
Paré, A., M.D.	Lectr.
Roy, J. N., M.D.	Lectr.
Blagdon, L., M.D.	Lectr.
Rhéaume, P. Z., M.D.	Prof.
Therapeutics	
Masson, D., M.D.	Prof.
Fortier, L. E., M.D.	Prof.
Bourgoin, J., M.D.	Prof.
Mignault, G. E., M.D.	Lectr.
Toxicology	
Derome, W., M.D.	Prof.

AFFILIATED INSTITUTIONS

AGRICULTURAL INSTITUTE at Oka, about 30 miles from Montreal, founded 1893 by the Trappist Fathers of Oka. Director, R. P. Leopold. 16 other Profs. of *Ag. Botany*; *Animal Biology and Hygiene*; *An. Industry*; *An. Pathology and Bacteriology*; *Apiculture*; *Arboriculture*; *Aviculture*; *Buildings and Accounts*; *Chem., Geol. and Mineral*; *Fruit and Flower Gardening*; *Kitchen Gardening*; *Large-scale Farming and Machinery*; *Maths.*; *Physics and Drawing*; *Soils*; *Zoology and Rural Economy*. 8 other Supts. of Practical Work.

APPLIED SCIENCE, including Engineering and Architecture. The École Polytechnique, which was founded in 1874, is subsidized by the Govt. of the Province of Quebec and the principal Railways of the Dominion. Principal, A. Boyer. 21 Profs. of *Architecture, Chemistry, Drawing, Electricity, Electrotechnics, Electrochem., Electro-met., Engineering—Civil, Elec., Mech. and Sanit., Geodesy, Geology, Geometry, Heating, Hydraulics, Industrial Chem., Industrial Legisln., Indust. Technology, Maths., Metallurgy, Mineralogy, Mining, Physics, Railways, Surveying, Thermodynamics, Ventilation*. 14 Hony. Profs.

COMMERCE. École des Hautes Études Commerciales. Created by the Provincial Govt. in 1907. Director, Prof. H. Laureys. 20 other Profs. of *Accountancy, Banking, Chemistry, Customs Legislation, Economics, English, French, Geography, History, Insurance, Italian, Law, Maths., Math. Physics, Publicity*. 3 Hony. Profs.

CONSERVATOIRE NATIONAL DE MUSIQUE.

OPTOMETRY, COLLEGE OF.

RADIUM INSTITUTE, affiliated with L'Institut Pasteur (Paris).

ENSEIGNEMENT SECONDAIRE OU CLASSIQUE. Ten Colleges for boys are

affiliated to the Univ. under conditions providing for a 4 yrs.' High School course followed by a 4 yrs.' College or Arts course, on the completion of which a student may qualify by examn. for a diploma admitting him to professional studies in the Univ. The École d'enseignement secondaire pour les Jeunes Filles provides similar College courses for girls organized in French, English, and Special (Arts d'Agrément, Commerce, Pol. and Soc. Econ., Domestic Science) sections.

GENERAL INFORMATION (v. also p. 322)

Established, as a branch of Laval, Quebec, in 1878, with Faculties of Theology and Law, to which were added Medicine in 1879 and Arts in 1887. Since 1889 this Institution has been practically independent of, though receiving its degrees from, Quebec, and on Feb. 14, 1920, it was incorporated under its present name by an Act of the Provl. Legislature. In 1920 Faculties of Pure Science and of Letters and a School of Social, Economical, and Political Sciences were formed; in 1921 the School of Dental Surgery was made a separate Faculty, and the Conservatory of Music was affiliated. A Radium Institute was created in 1923. The general administration is conducted by a Senate, Commissions of Admn. and Studies, Univ. Council and Exec. Committee. Endowments: $4,000,000 from a national subscription (1920), $1,000,000 from the Provl. Govt., and $1,000,000 from the Seminary of St. Sulpice.

LIBRARY, 125,000 vols. Each Faculty and School has the necessary teaching collections and laboratories.

FACULTIES. Theol. (constituted by the Grand Seminary of St. Sulpice); Philosophy; Law; Med.; Letters; Sciences; Dental Science. Incorporated in the Univ. are Schools of Vet. Med., Pharmacy, and Social, Econ. and Polit. Science.

DEGREES AND DIPLOMAS. Courses in the incorporated and affild. institns. include—a 4 yrs.' course in the Éc. Polyt. for the B. ès Sc. App.; 3 yrs. in the Éc. de Méd. Comp. for the D. en Méd.Vét.; 4 yrs. in the Éc. de Ch. Dent. for the D. en Ch.D.; 4 yrs. in the Éc. de Phm. for the B. en Ph. and D. en Ph.; 4 yrs. in Inst. Agric. d'Oka for the B. en Agr. and D. en Sc.Agr.; 3 yrs. in the Éc. des H.E. Comm. for a Diploma.

THE YEAR 1924–25

NEW DEPARTMENTS. L'École d'hygiène sociale appliquée, founded in 1924, with the co-operation of the Provincial Government, the City of Montreal, and the Metropolitan Assurance Coy.

RELATIONS WITH OTHER INSTITUTIONS. Le College d'Optométrie affiliated by the Univ. By an Arrêté of October 6, 1924, the French Govt. granted to the Montreal "licence" equivalence with the "licence" leading to doctorate in the French Univ. The director of l'École polytechnique, Mr. A. Frigon, was appointed, while retaining his office, superintendent of Technical Education in the Province of Quebec.

INTERCHANGE OF TEACHERS. Prof. Montpetit gave a course on Canada at the Sorbonne, from March to June.

RESIGNATIONS. M. J. Désy, appointed technical advisor in the Department of External Affairs. M. Désy is still Prof. of History.

HONORARY DEGREES. *LL.D.*: Hon. J.-L. Perron, Hon. A. David, Hon. E. Patenaude, R. Genest, and G. Baudouin; *M.D.*: Dr. Emile Sergent of Paris.

STUDENTS. Full-time, preparing in colleges for baccalaureate, 4567, including 938 women; graduate students, 2389 (women—17). Part-time graduate students, 412 (w.—252). Foreign students, 378 (w.—28). Taking courses not of university standard, 1645 (w.—1323). DEGREES OBTAINED: B.A., B.S., B.L., 148; Theol., 26; Law, 29; Med., 72; Sciences, 9; Dent. Surg., 49; Vet., 5; Pharm., 18; Appl. Sc., 7; Com., 16; Agr., 6.

MOUNT ALLISON UNIVERSITY, SACKVILLE, N.B.

CHAIRMAN OF THE BOARD OF REGENTS—B. C. BORDEN, D.D., D.C.L.
PRESIDENT OF THE SENATE—G. J. TRUEMAN, M.A., Ph.D. (Col.).
SECRETARY AND LIBRARIAN—Prof. F. W. W. DES BARRES, B.A.
REGISTRAR—Prof. W. M. TWEEDIE, M.A.

PROFESSORS, LECTURERS, ETC.

Biology [Prof.
Fraser, R , B.S. Guelph., M.A. Tor.
1 Asst.

Chemistry
Bigelow, H. E., Ph.D. Harv. Prof.
Betts, R. L., B.Sc. Instr.
3 Assts.

Classics [Wood Prof.
Cohoon, J. W., Ph.D. Princeton

Commerce and Economics
Line, J., M.A. Tor., B.D. Vict., S.T.D. Wes.

Education [Prof.
Trueman, G. J., M.A., Ph.D. Col.

Engineering
McKiel, H. W., B.A., B.Sc. Qu. (Mech.E.) Prof.
West, F. L., M.A., B.Sc. McG. Prof.
2 Assts.

English Lang. and Lit.
Tweedie, W. M., M.A. Lond. Allison Prof.

French and Greek [Prof.
Delano, C. C., Ph.D. New York

Household Science
Ryder, Alice, B.Sc. Col. Head of Dept.

Mathematics [Prof.
Hunton, S. W., B.A. Lond., M.A.

Philosophy [Massey Prof.
Liddy, R. B., B.D., Ph.D. Tor.

Physics
MacGregor, D. G., B.A. Ox. Prof.
Hillyard, R. E. Instr.
1 Asst.

Theology
Line, J., M.A. Tor., S.T D. Wes. Montreal. Allison Prof.
Watson, W. G., B.A. Tor., B.D. Victoria (Hebrew and Engl. Bible) Prof.
Des Barres, F. W. W., B.A. (Church Hist.) Prof.

GENERAL INFORMATION (v. also p. 322)

The METHODIST CHURCH of Canada controls the administration, which is, however, conducted on strictly non-sectarian principles; a considerable number of the students belong to other religious denominations. The Univ. is named after C. F. Allison, founder (in 1843) of "Mt. Allison Wesleyan Academy," the Trustees of which were, by an Act of the Legislature of N.B. in 1858, authorized to establish as a degree-conferring institution, "Mt. Allison Wesleyan College." This name was changed in 1886 to "Univ. of Mt. Allison Coll." and in 1913 to "Mt. Allison Univ." In 1903 the McClelan School of Applied Science was opened in the Univ.

LIBRARY, 15,000 vols. Engineering WORKSHOPS with gasoline engine, etc.

FACULTIES. Arts, Science, Theology, School of Applied Science, Dept. of Household Science.

DEGREE COURSES. 3 yrs., B.Mus.; 4 yrs. (from "Junior" Matricn.), B.A., B.Sc. "Senior Matricn." Certifs. (*e.g.* N.S. Provl. Educn. Dept., grade A) admit to 2nd yr. of B.A. or B.Sc. course; Prince of Wales Coll. High Honour Diploma to 3rd yr. V. also p. 326.

HIGHER DEGREES. Open to B.A. of 1 yr.'s standing, M.A.; 2 yrs.', B.D.; to B.Sc. of 1 yr.'s standing, M.Sc.; Honorary, D.D., LL.D., D.C.L.

CERTIFICATES. Applied Science, 2 yrs.' course (may be taken as part of 3rd and 4th yrs. of B.A. course); Finance and Com., 2 yrs.: Probationers for Ministry, 3 yrs.

RECOGNITION by other Univs. (v. p. 360).

FEES, tuition and registration, annual: Arts, $85; Engin., $120.

RESIDENCE. Accommodation in the Univ. for 130 men and 60 women students. Board and lodging, $249 p.a.

PUBLICATIONS. *Calendar* (July); *Argosy* (students'), and *Mt. Allison Record*, monthly.

THE YEAR 1924–25

HONORARY DEGREES. *D.D.*—J. W. McConnell, A. S. Rogers, H. E. Thomas, E. R. Bracken, J. W. Prestwood.

OTHER DEGREES (1924). M.A., 3, including 2 women; B.A., 20 (women—10); B.Sc., 11; B.D., 1.

STUDENTS. Graduate, 5 (w.—1); undergraduate in Arts, 134 (w.—57); Science, 24 (w.—4); Theology, 7; Engineering, 41; Finance and Commerce, 2; Household Sc., 4 (w.); Music, 2 (w.); special, 59 (w.—53). Summer School, 55 (w.—20).

UNIVERSITY OF NEW BRUNSWICK, FREDERICTON

VISITOR ON BEHALF OF H.M. THE KING—THE LIEUT.-GOVERNOR OF NEW BRUNSWICK.

CHANCELLOR—C. C. JONES, M.A., Ph.D., LL.D.

PRESIDENT OF THE SENATE—W. S. CARTER, M.A., LL.D., D.C.L.

REGISTRAR—HAVELOCK COY, M.A.

PROFESSORS AND LECTURERS

Chemistry
Cameron, A., M.A., B.Sc. St. And. [Prof.

Classics and Anc. Hist.
Raymond, W. T., B.A., B.A. Harv., LL.D. Dal. Prof.

Engineering, v. also Phys.
Turner, E. O., S.B. Mass. I. Tech. (Civil E.) Prof.
Stephens, J., M.A., M.A.I. Dub., M.I.C.E.I. (Mech. E. and Drawing) Prof.

English and Mod. Hist.
Harvey, E. L., B.A. Ox. Prof.

Forestry
Webb, H. P., M.Sc. Prof.

French and German
O'Donnell, G. H. R., M.A., Ph.D. Yale Prof.

Law
Richards, C. D., B.A.
Lectr. (Contracts and Real Property).
Hughes, P. J., B.A.
Lectr. (Torts, Crimes).
Winslow, J. J. F., B.A.
Lectr. (Procedure).

At St. John:
Hazen, Sir Douglas, C.J., K.C.M.G., B.A., LL.D.
Dean of Faculty.
McInerney, H. O., M.A., B.C.L. Prof.
15 Part-time Lectrs.

Mathematics
The Chancellor Prof.

Natural History and Geol.
Cox, P., B.A., B.Sc., Ph.D. Prof.

Philosophy and Economics
Kierstead, W. C., Ph.D. Chic., M.A. Prof.

Physics and Elec. Engin.
Baird, A. F., M.Sc. Prof.

GENERAL INFORMATION (v. also p. 322)

The "College of New Brunswick" was incorporated in 1800 by Provincial Charter, re-incorporated in 1828 by Royal Charter as "King's College," and merged in 1859 in the Univ. of N.B. established in that year. A Faculty of Law was established in 1923 in St. John, taking over, with some changes, the work of the former King's College Law School. The Provincial Govt. appoints the Chancellor and a majority of the governing body, called the Senate, of which the Chief Supt. of Education for the Province is *ex officio* President. The annual grant from Provincial revenues is $25,000.

LIBRARY: 14,000 vols. MUSEUMS: Natural History (rich in birds). LABORATORIES: Bot., Chem., Engin., Geol., Phys., Psych. OBSERVATORY: Telescope with 6″ clear aperture.

DEPARTMENTS. Arts, Applied Science (Engineering and Forestry), Law.

DEGREE COURSES. 4 yrs. (from "Junior" Matricn.), B.A., B.Sc. (in Pure Science, Engin. or Forestry). 3 yrs., B.C.L. The "Senior" Matricn. (or equivalent) Certif. admits to the 2nd year. The first 2 yrs. in Engin. are arranged to suit candidates for licences as Land Surveyors.

HIGHER DEGREES. Open to B.A. of 2 yrs.' standing, M.A.; to B.Sc. in Pure Science of 2 yrs.', in Engin. or For. of 3 yrs.' standing, M.Sc.; to B.A. of 6 yrs.' standing, B.C.L.; to B.C.L. of 5 yrs.' standing, D.C.L.; D.Litt., D.Sc., LL.D. (Hon.).

RECOGNITION by other Univs. (v. pp. 309, 638).

FEES, tuition, annual: Arts, $70; Engin. or Forestry, $100.

THE YEAR 1924–25

BENEFACTIONS. Provincial Govt., $25,000 for completion of Memorial Hall; private subscriptions, $6000.

RESIGNATION. Prof. P. Klimpke.

HONORARY DEGREE. *LL.D.*—Geo. C. Heine. OTHER DEGREES: B.A., 12; B.Sc., 8 (including 5 in Engineering and 1 in Forestry).

STUDENTS. Full-time, 170 (including women—48); full-time graduate student, 1; occasional, 9.

UNIVERSITY OF OTTAWA

APOSTOLIC CHANCELLOR—H.G. THE ARCHBISHOP OF OTTAWA.
RECTOR—F. X. MARCOTTE, D.D., D.Ph
REGISTRAR—A. JASMIN, Ph.D.
TREASURER—A. D. McGOWAN, B.L.
PREFECT OF STUDIES—A. PELLETIER.
PREFECT OF DISCIPLINE—A. CARY.

PROFESSORS

[a = Arithmetic, c = Classics, e = English, f = French, h = History, m = Mathematics, p = Penmanship, r = Religious Knowledge.]

Allard, O.—f, h, r.
Arsenault, A. J.—c, e, f.
Auger, L. B. A., f, m, h, p.
Beaulieu, J.—e, f, h, m, p, Music.
Beauséjour, R., Th.L.—r.
Bélanger, A., Ph.L.—Pedagogy.
Bergevin, L.—c, r.
Bétournay, A., Ph L.—c.
Bradley, F.—e, c.
Brosseau, H. D.—c, h.
Brunet, A.—f, c.
Cadieux, J.—e, r, p.
Cary, A.—e, r, Econ.
Cassidy, C. J.—e.
Charbonneau, L., B.A.—Pedagogy.
Chartrand, J.—e, f, r.
Cornellier, P., B.A., Ph.D., Th.D.—r.
Côté, V.—f, r.
De Blois, J.—Geog., r, p.
Deschamps, T.—r, f.
Desnoyers, A., Ph.D.—r.
Dubé, H., Ph.D., M.Sc.—m, Physics, Astron.
Dubois, N.—c, f.
Dubois, P., B.A.—m, Law, p.
Duchesneau, J. C., B.L.—e, m.
Fusey, A., Ph.L.—c, f, r.
Garneau, P., Ph.L.—c, r.
Gravel, J.—c, r.
Guertin, A.—f, h, r.
Guy, J.—m, r.
Hayden, W.—e, m.
Hébert, J., Ph L., Th.L.—c, r.
Jacques, A.—h, m, r.
Jasmin, A.—h, c.
Julien, O.—e, f, h, Stenography, p.
Lajeunesse, J. A., M.A.—Nat. Sc., Pedagogy.
Lamoureux, R , Ph.D.
Latulipe, E.—c, f, m.
Leblanc, R.—Philos., r
Leclerc, A.—f, m.
Legault, R.—Business
Létourneau, R.—f, m, Geog.
McMahon, R., B.A., Ph.L.—c.
Maillette, A.—f, m.
Marchand, G., Ph.D.—r.
Martel, G.—m.
Nillès, Th.D.—r, Pol. Econ. and Const. Law.
Paquette, A.—f, r, Geog.
Pelchat, J.—h, m, r.
Pelletier, A.—c.
Pelletier, L. P., Ph.L.—e.
Perruisset, L., D.Ph.—h, Philos.
Poulet, D., L.Ph.—Philos., r.
Quigley, F. J.—e.
Renaud, E., Ph.D.—Chem., m, f, r.
Sénécal, R.—Business.
Simard, G., Ph.D.—Eccl. Hist.
Tassé, A.—Music.
Véronneau, A., M.A.—c, f.
Verville, E., Ph.L.—f, c.
Villeneuve, R., D.Ph.—r.
Voyer, O.—f.

GENERAL INFORMATION (v. also p. 322)

The " College of Bytown," incorporated in 1849, changed its name in 1861 to " College of Ottawa," and became in 1866 the Univ. of Ottawa with power to grant degrees. By a papal brief dated Feb. 5, 1889, it was accorded the status of a Catholic University. The Univ. is conducted by the Oblate Fathers of Mary Immaculate.

AFFILIATED INSTITUTIONS. 4 Convents and D'Youville Academy at Ottawa; St. Joseph and Sacred Heart Academies at Hawkesbury, Ont.; College of Sacred Heart, Sudbury, Ont.; College Mathieu, Gravelbourg, Sask.

LIBRARY, 25,000 vols. The Parliament Library, to which students have access, has 300,000 vols. MUSEUMS: In the Univ.—Geol.; access also to Geol. Survey Dept. Museum. The Dominion Observatory and Canadian Fisheries Museum are located in Ottawa. LABORATORIES: Chem., Phys., Mineral.

DEGREES, ETC. B.A., M.A., B.L. (Lit.), B.Phil., B.Th., D.Th., LL.D. (Hon.), Lic. Phil., D.Phil., Lic. Th. The Arts course leading to the B.A. or B.L. covers 4 yrs., the work of the Fourth to the Seventh " Forms," that of the first 4 Forms being preparatory to matricn. Extra-mural students may appear for examn. without attending classes in the Univ. for more than 1 yr. The B.A. exempts law and medical students from Prelim. Examns. and entitles the former to a reduction of 2 yrs. of the ordinary 5 yrs.' course. The B.Th. and the L.Th. involve respectively 2 and 3 yrs.' study of Theology after the completion of a classical course; the B.Ph. and the L.Ph. respectively 3 and 4 yrs.' study after matricn. Marks assigned for the exercises of students are read in public once a month, and monthly reports are sent to parents.

FEES. For Tuition and Board Residence per half-year, $300. Degrees from $5 to $75.

RESIDENCE. Students whose homes are not in Ottawa are required to live in the Univ. building, where they are subject to strict discipline—*e.g.* no book or newspaper may be introduced without having been previously examined and approved of by the Prefect of Discipline.

DEGREES GRANTED (1925). B.A., 33; M.A., 3; B.Ph., 22; L.Ph., 19; B.Th., 7; L.Th., 4; LL.D., 1; D.Litt., 1; D.Phil., 2.

NUMBER OF STUDENTS, 1924–25. Faculty of Theology, 71; Philos., 88; Arts, preparatory course, 847. In 9 affiliated institutions, 3456.

QUEEN'S UNIVERSITY, KINGSTON, ONTARIO

CHANCELLOR—Rt. Hon. Sir ROBERT L. BORDEN, G.C.M.G., P.C., K.C.

PRINCIPAL AND VICE-CHANCELLOR—R. BRUCE TAYLOR, M.A., D.D., LL.D.

RECTOR—W. H. COVERDALE, LL.D.

REGISTRAR AND TREASURER—W. E. MCNEILL, M.A., Ph.D.

DEPUTY REGISTRAR—ALICE KING.

LIBRARIAN—NATHAN VAN PATTEN.

DEAN OF WOMEN—HILDA C. LAIRD, B.A.

PROFESSORS, LECTURERS, ETC.

Accounting

Walker, C. E., C.A. Asst. Prof.
Smails, R. G. H., A.C.A. ,, ,,

Anatomy, v. also Med.—Obs., Surg.

Matheson, D. C., M.B. Prof.
1 Demr.

Banking, v. Pol. Econ.

Biology

MacClement, T. W., D.Sc. Armour Inst., M.A. Allan Prof.
Klugh, A. B., M.A. Asst. Prof.
Earl, R. O., M.Sc. Chic., B.A. Asst. Prof.
2 Tutors.

Chemistry, v. also Engin. [Prof.

Neish, A. C., M.A., Ph.D. Col.
McRae, J. A., M.A., Ph.D., F.I.C. Assoc. Prof.
Frost, G. B., B.A. Tor., Ph.D. Cal. Lectr.
Cadenhead, A. F. G., B.A. Lectr.
Dorrance, R. L., B.A. Tor. Lectr.
12 Tutors.

Chemistry, Biological

Logan, J. F., B.A. Acadia, Ph.D. Yale Prof.

Classics

Callander, T., M.A. Aberd. and Ox. (Greek) Prof.
Tait, M. D. C., B.A. Ox. Lectr.
Jolliffe, R. O., Ph.D. Chic. (Latin) Prof.
Macdonnell, Mary L., M.A. Instr.

Commerce, v. also Accounting.

Caldwell, H. G., B.A., B.Com. Asst. Prof.

Economics, v. Polit.

Engineering, v. also Mining

Macphail, A. J., C.M.G., B.Sc. (General E.) Prof.
Arkley, L. M., M.Sc. (Mech. E.) Prof.
Goodwin, L. F., Ph.D. Heid., A.C.G.I., F.I.C. (Indust. and Chem. E.) Prof.
Wilgar, W. P., B.Sc. (Civil E.) Prof.
Malcolm, L., M.A., B.Sc. (Munic. E.) Prof.
Jemmett, D. M., M.A., B.Sc. (El. E.) Prof.
Ellis, D. S., M.A., B.Sc. (Civil E.) Assoc. Prof.
Bain, J. W., M.Sc. McG. (El. E.) Asst. Prof.

Rutledge, L. T., B.A.Sc. (Mech.E.) Assoc. Prof.
Jackson, A., B.Sc. (Draughting) Asst. Prof.
Davies, V. R., M.Sc. (Draughting) Lectr.
9 Tutors, 7 Demrs., 3 Instrs.

English
Clarke, G. H., M.A. McM., D.Litt. Prof.
Roy, J. A., M.A. Edin. Prof.
Alexander, H., M.A. Liv. Asst. Prof.
Gordon, Miss W., M.A. Asst. Prof.
Alexander, W. A., M.A. Tor. Lectr.
6 Tutors.

French [Prof.
Campbell, P. G. C., M.A. Ox.
Hicks, R. K., B.A. Camb., M.A. Harv. Assoc. Prof.
Conacher, W. M., B.A. Lond. Asst. Prof.
McConnell, Mme. B. S. Instr.

Geology [Prof.
Baker, M. B., B.A., B.Sc., F.G.S.A.
Rose, B., Ph.D. Yale, B.Sc. Asst. Prof.

German
Macgillivray, J., B.A. Tor., Ph.D. Leip. Prof.

Hebrew, v. Semitic

History
M'Arthur, D. A., M.A. Prof. of H. and Douglas Prof. of Colonial H.
Prince, A. E., M.A. Ox. and Manc. (English H.) Assoc. Prof.
Trotter, R., B.A. Yale, M.A., Ph.D. Harv. Assoc. Prof.

Italian, v. Romance

Mathematics
Matheson, J., M.A., Dean of the Faculty of Arts Prof.
Gummer, C. F., M.A. Ox., Ph.D. Chic. Prof.
Miller, Norman, Ph.D. Harv., M.A. Assoc. Prof.
Johnston, K. P., M.A., B.Sc. Asst. Prof.
Newlands, Mrs., M.A. Instr.
8 Tutors.

Medicine, v. *infra*

Metallurgy
MacKay, G. J., B.Sc. Prof.
Carson, O. A., M.A. Col., B.Sc. Lectr.

Mineralogy
Bruce, E. L., M.A., Ph.D. Col., B.A. Prof.

Mining Engineering
Graham, S. N., B.Sc. Prof.

Philosophy
Humphrey, Geo., B.A. Ox., Ph.D. Harv. Prof.
MacCallum, H. R., M.A. Ox. Asst. Prof.
1 Tutor.

Physics
Clark, A. L., B.Sc. W.P.I., Ph.D. Clark, Dean of Fac. of App. Sc. Prof.
Baker, W. C., M.A. (Expl. P.) Prof.
Gray, J. A., D.Sc. Manc. Chown Research Prof.
Flammer, E., B.Sc. Calif., Ph.D. Harv. Assoc. Prof.
Robertson, J. K., M.A. Tor. Assoc. Prof.
Ball, W. V., B.A.Sc. Tor. Lectr.
2 Tutors.

Physiology
Melvin, G. S., M.D. Aberd. Prof.
Ettinger, G. H., B.A., M.D., C.M. Lectr. in P. and Embryol.
1 Fellow.

Political and Econ. Science
Heaton, H., M.A., M.Com., D.Litt. Macdonald Prof.
Mackintosh, W. A., Ph.D. Harv., M.A. Prof. of Pol. Sc. (Director of Banking Courses).
Caldwell, H. G., B.A., B.Com. Asst. Prof.

Wynne, W. H., M.A. Lectr.
Knox, F. A. Lectr.
3 Tutors in Econ. and Banking.

Romance Lang. and Lit., v. also French
Brovedani, J. H., D. ès L. Rennes Prof. of Span. & Ital.

Semitic Langs. and Lit. [Prof.
Jordan, W. G., B.A. Lond., D.D.

Spanish, v. Romance

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics, v. Surg.

Bacteriology
Reed, G. B., M.A., B.Sc., Ph.D. Harv. Prof.
Orr, J. H., M.D., C.M. Lectr.

Electro-Therapy, v. Mat. Med.

Gynæcology
Mylks, G. W., M.D. Prof.
Morison, M. J., M.D. Clin. Asst.

Materia Med.
Gibson, T. W., M.D., M.A., M.B. Edin. Prof.
Quigley, J. P., M.A., M.D., M.R.C.S. Eng., L.R.C.P. Lond. (Lectr. in Electro-Therapy) Asst. Prof.

Med. Jurispr. and Toxicology
Gardiner, R. J., M.D., C.M. Lectr.
Rigney, T. J., B.A., K.C. Lectr.

Medicine and Clin. Med.
Connell, W. T., M.D., M.R.C.S. Eng., L.R.C.P. Lond. Prof.
Gibson, W., M.D. Assoc. Prof. of M.
MacCallum, E. C. D., M.D., C.M. McG. Assoc. Prof. of M.
Third, J. R., B.A., M.D. Clin. Asst.
Macdonnell, P. M., B.A., M.D. Clin. Asst.
Hopkins, B. H., M.B. Tor. Lectr.
Jones, W. A., M.D. Westn. Clin. Asst. & Historian.

Obstetrics
Williamson, A. R. B., M.A., M.D., M.R.C.S. Eng., L.R.C.P. Lond. Prof.
O'Connor, F. J., M.D., C.M. Clin. Asst. & Fellow in Anat.

Ophth., Ot., Laryng. and Rhin.
Connell, J. C., M.A., M.D. Prof.
Cays, F. A., M.D., C.M. Lectr.
Connell, H. C., B.A., M.D., C.M. Clin. Asst.

Pathology
Miller, J., B.Sc., M.D. Edin., D.Sc. Birm. Prof.
Hay, W. D., M.A., M.D., C.M. (Lectr. in Clin. Microscopy) Asst.

Pediatrics [Prof.
MacGregor, R. R., M.D., C.M.

Preventive Medicine
Williamson, A. R. B., M.A., M.D. Prof.
Bennett, C. W., M.D., C.M. Lectr.

Psychiatry
Ryan, E., B.A., M.D., C.M. (Assoc. Prof. of Surg.) Prof.

Surgery, v. also Psych.
Austin, L. J., M.Ch. Camb., F.R.C.S. Eng. Prof. of Clin. S.
Etherington, F., M.D., C.M.G. Assoc. Prof.
Gardiner, R. J., M.D., C.M. Asst. Prof.
Keyes, S. J., M.D., C.M. (Lectr. in Anæsthetics) Asst. Prof.
Sparks, J. F., B.A., M.D., C.M. Asst. Prof. of S. and *Appl. Anat.*
Bogart, I. G., M.D., C.M. Assoc. Prof.

AFFILIATED COLLEGE

QUEEN'S THEOLOGICAL COLLEGE (Presbyterian). Principal and Prof. of Church Hist. and Hist. of Dogma, S. W. Dyde, D.Sc., D.D., LL.D. 5 other Profs.

GENERAL INFORMATION (v. also p. 322)

On the initiative of the Presbyterian Church a Royal Charter was granted in 1841 for the establishment of Queen's College, Kingston, funds being provided by grants from the Church and from the Govt. and by private benefactions. To the original Faculties of Arts and Theology were added, in 1854 Medicine, in 1907 Education, and in 1916, by amalgamation with the Univ. of the School of Mining founded in 1893, Applied Science. In 1912 the Faculty of Theology was separately incorporated as "Queen's Theological College" in affiliation with the Univ. but controlled entirely by the Presbyterian Church. In 1920 the Faculty of Educn. was discontinued, the students being transferred to the Teachers' Training College, Toronto. Endowments amount to $1,800,000.

The administration is vested in a Board of Trustees, composed of Chancellor, Principal and Rector, and representatives of the College, the Faculties, Graduates and Benefactors.

LIBRARY, 135,000 vols. (valuable Canadian Historical Section). MUSEUMS: Herbarium (35,000 spec.), Geol., Mineral., Ethnol. (rich N. American stone age collection). LABORATORIES, including important School of Mines buildings: Biol. (accommodating 220 students), Chem., Geol., Physics, Engineering, Mining, Metall., Mineral. OBSERVATORY with 6″ telescope. HOSPLS. available for clinics, 2 general, 1 for insane. Easy access to important locomotive shops, dry docks, canal locks, water-power stations, mines, metallurgical works. Exceptional natural facilities for Geol. study.

FACULTIES. Arts, Applied Science, Medicine. The Senate includes representatives of the Theol. College also.

MATRICULATION. See p. 407.

DEGREE COURSES. Four years, B.A., B.Com., B.Sc. (in Engin.—Civ., Mech., Elec., Mining and Metall., Chem. and Metall.—Analyt. and Applied Chem., Mineral. and Geol., or Physics); 6 yrs., M.D., C.M.

Combined courses: 6 yrs., B.A. and B.Sc., B.A. and B.D.

For teachers in schools and others unable to pursue the full degree courses in Arts at the Univ. extra-mural instruction is provided by correspondence conducted by a staff of tutors. All students proceeding to the degree must take in residence 9 of the 19 courses required for the Pass degree. Some of these may be covered at the Summer School of 6 weeks during July and Aug., but the examinations written are the regular Sept. examns. as set for all students.

Banking Courses leading to diplomas of Associate or Fellow of the Canadian Banking Assocn. Tuition given by correspondence to members of Canadian Banks.

By agreement with the Can. Institute of Chartered Accountants, Toronto, the tuition of their course, leading to the C.A. certif., is given by the Univ.

HIGHER DEGREES. M.A. (1 yr. graduate course); M.Sc. (1 yr. course and 2 yrs.' professional practice); Ph.D. (3 yrs.); D.Sc. (2 or 3 yrs.); D.P.H. (Doctor of Pub. Health); B.D. (3 yrs.' course or its equivalent); Honorary LL.D., D.D.

RECOGNITION BY OTHER UNIVS. See pp. 106, 267, 276, 277, 638.

DIPLOMAS. Testamur in Theology (3 yrs.' course).

FEES (Class and Examn.) in Arts, $54 p.a.; Science, $102 to $122.

FELLOWSHIPS. Two of $500 and two of $250 open to Honour B.A. at Queen's and holders of equivalent degree elsewhere, for research in Faculty of Arts. One ($500) may be awarded as a *Travelling Fellowship*. Milton Hersey Fellowship in Chemistry ($500) open to graduates of all univs. and technical colleges.

RESIDENCE with rooms for 100 women and refectory accommodation for 150. Board and lodging, $8 to $10 a week.

UNIVERSITY EXTENSION. See above—Degree courses. A course of weekly lectures is open to the public and lectures are given by members of the staff at various centres in Ontario.

PUBLICATIONS. *Calendars* (by Faculties); *Queen's Quarterly*; *Queen's Univ. Journal.*

THE YEAR 1924–25

BENEFACTIONS. Milton L. Hersey, endowment of fellowship of $500 p.a.; J. F. Kidd, $2000 endowment for purchase of medical books; a graduate, $2000 endowment for purchase of instruments in Dept. of Physics; Adam Shortt, collection of engravings; subscriptions for memorial windows, $1350; C. S. Campbell of Montreal bequest (to hospital), $350,000.

NEW BUILDINGS. Old Medical Building, burnt in 1924, rebuilt. Clinical wing with pathological laboratories and lecture room completed. Separate building for technical supplies Dept. and Athletic Board. Greenhouses.

RESIGNATIONS. Dean Skelton, appointed Secy. of State for External Affairs at Ottawa, succeeded by H. Heaton from Univ. of Adelaide as Prof. of Economics. B. K. Sandwell, succeeded by G. H. Clarke from Univ. of the South, Sewanee, as Prof. of English. A. P. Lothrop. J. F. Macdonald. Mrs. W. E. McNeill. RETIREMENT: Dr. J. Watson, after 52 years as Prof. of Philos. DEATHS: Ex-Principal D. M. Gordon, Dr. W. G. Miller.

OTHER CHANGES. Requirements for admission to Medical Faculty raised to include 3 subjects of Hon. (in addition to full Pass) Matriculation. Four new Fellowships (see under General Information).

HONORARY DEGREES. *D.D.*—D. W. Best. *LL.D.*—A. T. De Lury, J. G. Fitzgerald, Principal H. W. Bryan, Lady Byng.

OTHER DEGREES. M.A., 14, including 5 women; B.A., 128 (women—75); B.Com., 17 (w.—1); M.Sc., 2; B.Sc., 48.

STUDENTS (Nov. 1924). Arts, 1413, including 745 extra-mural; Science, 240; Medical, 253; Banking, 190; Chartered Acctcy., 245. Registered in two Faculties, 30; Total, 3056. Summer School, 451. Summer students not in Summer School or in previous winter, 121.

UNIVERSITY OF ST. FRANCIS XAVIER, ANTIGONISH, NOVA SCOTIA

CHANCELLOR AND *ex officio* CHAIRMAN OF THE BOARD OF GOVERNORS—Rt. Rev. J. MORRISON, D.D., Bishop of Antigonish.

PRESIDENT-RECTOR—Very Rev. H. P. MACPHERSON, D.D., D.C.L.

VICE-RECTOR AND DIRECTOR OF DISCIPLINE—Prof. D. J. MACDONALD, Ph.D.

BURSAR—D. C. MACKAY, B.A.

LIBRARIAN—Prof. M. M. COADY, Ph.D., D.D.

REGISTRAR—Prof. P. J. NICHOLSON, Ph.D.

DIRECTOR OF STUDIES—Prof. R. K. MCINTYRE, B.Sc.

PROFESSORS, LECTURERS, ETC.

Biology and German
Connolly, C. J., Ph.D. Mun. Prof.

Chemistry
McIntyre, R. K., M.A., B.Sc. Cath. Univ. of Amer. Prof.
Chaisson, A. F., M.A., B.Sc. (Acting).
Mullins, E., M.Sc. Cath. Univ. Asst. Prof.

Classics
Ktenas, Y., M.A. Harv. Prof.

Economics
Macdonald, D. J., M.A., Ph.D. Cath. U.A. Prof.

Education
Coady, M. M., Ph.D., D.D. Prof.

English Lit. and Modern Hist.
Young, J. J., M.A. (N.U.I.) Prof.
Bannon, R. V., B.A. Assoc. Prof.

Gaelic Lang. and Lit.
Nicholson, P. J., Ph.D. Prof.

Geology and Engineering
McPherson, H., D.D., Ph.D. Urb. Rome Prof.

History, v. Engl.

History, Ancient
MacDonald, H. J., S.T.L. Prof.

Law
Macdonald, A., M.A., Judge C.C. Lectr.

Mathematics
O'Connor, F. J., B.A. Harv., B.Sc. M.I.T. Prof.
McKenna, L., B.A. Lectr.

Philosophy
Coady, M. M., D.D., Ph.D. Prof.
Boyle, T. O'R., D.D. Assoc. Prof.

Physics
Nicholson, P. J., M.A., Ph.D. J. Hopk. Prof.

Religion
Boyle, T. O'R., D.D. Lectr.

GENERAL INFORMATION (v. also p. 322)

The Univ. was authorized in 1866 to grant degrees, and was endowed with full Univ. powers in 1882. A new Charter was granted in 1909. The

Univ. is under the direction of the Roman Catholic Church, but there are no religious tests for entrance or for degrees. The recent Neil McNeil bequest for endowment is valued at $600,000. A further $200,000 will become due on the death of beneficiaries now receiving interest.

LIBRARY, 33,000 vols. LABORATORIES: Biol., Chem., Geol., Phys.

COURSES. 4 yrs., B.A., B.Sc.; 2 yrs., Engineering (gives admission to leading technical colls. of Canada and U.S.A.); graduate 1 yr. course for M.A. (v. also pp. 326, 360).

EXPENSES. Board and dormitory, $6 per week; private room, $2 per week; tuition for session, $85; laboratory, $5 to $7½; degree, $5 to $10.

A "PEOPLE'S SCHOOL," open Jan. to March (8 weeks), provides courses in various Arts, Pure Science, and Agric. subjects. No educational test for entrance.

PUBLICATIONS. *Calendar* (July); *Xaverian*, monthly.

THE YEAR 1924–25

NUMBER OF STUDENTS. Full-time, preparing for first degree, 199, including 46 women; graduate, 6 (women—2). Resident in colleges or hostels, 189 (w.—39). DEGREES OBTAINED: B.A., 29 (w.—3); B.Sc., 4.

UNIVERSITY OF SASKATCHEWAN, SASKATOON

VISITOR—Hon. W. H. NEWLANDS.

CHANCELLOR—Sir F. W. G. HAULTAIN, LL.D.

PRESIDENT—W. C. MURRAY, M.A., LL.D., F.R.S.C.

REGISTRAR—A. R. WEIR, B.A.

PROFESSORS, LECTURERS, ETC.

Accounting

Neilson, J., B.Acc. Prof.

Agriculture, v. *infra*

Bacteriology and Pathology

Lindsay, W. S., O.B.E., B.A. Dal., M.B. Edin. Prof.

Rea, George, M.B., Ch.B., D.P.H. Belf. Prof.

Biology

Thompson, W. P., M.A. Tor., Ph.D. Harv., F.R.S.C. Prof.

Cameron, A. E., M.Sc. Man., D.Sc. Aberd. Prof.

Fraser, W. P., B.A. Dal., M.A. Corn., M.Sc. McGill Prof.

Saunders, L. G., Ph.D. Camb. Asst. Prof.

Chemistry

Thorvaldson, T., B.A. Man., Ph.D. Harv. Prof.

Manning, R. J., B.A. Tor., D.Sc. Brist. Prof.

Basterfield, S. L., B.Sc. Lond., Ph.D. Chic. Prof.

Grubb, A. C., Ph.D. Chic. Prof.

Cameron, C. N., M.A., Ph.D. Chic. Asst. Prof.

Grace, N. J., B.A. Instr.

Classics

Sullivan, W. G., M.A. Dub. Prof.

Ramsay, W., B.A. Queen's Prof.

Ferguson, R. M., B.A. T.C.D. Asst. Prof.

Economics

Swanson, W. W., M.A. Qu., Ph.D. Chic. Prof.

Carrothers, W. A., Ph.D. Edin. Prof.

M'Queen, R., M.A. Alb. Asst. Prof.

Education

The President, M.A. Edin., LL.D. Qu. and Alb. Lectr.

Sharrard, J. A., M.A. Tor. Lectr.

Engineering, v. *infra*

English

Wilson, R. A., Ph.D. Queen's Prof.

Lothian, J. M., M.A. Glas. Prof.

Bayer, Jean G., M.A. Dal. Asst. Prof.

Bentley, J. A., B.A. Dal., Ph.D. Harv. Asst. Prof.

Weir, A. R., B.A. Lectr.

McKenzie, Edith J., B.A. Sask. Instr.

French

MacDonald, J. A., M.A. Harv. [Prof.

Muller, C. E., B.A. Lausanne, B.Sc. Geneva Prof.

Cameron, Margaret, B.A. McG., M.A. Rad. Asst. Prof.

German

Eaton, J. W., M.A. Dub. Prof.

Hebrew
Munro, M. F., M.A., B.D. Queen's Lectr.

History, v. also Polit. Sc.
Morton, A. S., M.A. Edin. Prof.
Simpson, G. W., M.A. Tor. Asst. Prof.

Household Science
Rutter, Ethel, Ph.B. Prof.
Oxner, Bertha G., B.A. Asst. Prof.

Law [Dean & Prof.
Moxon, A., B.C.L. Ox.
Kleven, V. E., B.C.L. Ox. Prof.
Cronkite, F. C., LL.B. Harv. Prof.
Sibbald, A. S., M.A. Tor. (Interpretn.) Lectr.

Mathematics [Prof.
Ling, G. H., B.A. Tor., Ph.D. Col.
Dines, L. L., Ph.D. Chic. Prof.
Pyke, A. J., M.A. Tor. Prof.

Pharmacy
Campbell, Alex. Prof.
Woods, Esli, B.S.P. Asst. Prof.

Philosophy
Sharrard, J. A., M.A. Tor. Prof.
Bateman, J. V., M.A. T.C.D. Asst. Prof.

Political Science
Underhill, F. H., B.A. Tor., M.A. Ox. (Lectr. in *History*) Prof.

Physics
Harrington, E. B., Ph.D. Chic. Prof.
MacKay, C. A., M.A. Dal., Ph.D. Princ. Prof.
Alty, Thos., B.Sc. Liv., Ph D. Camb. Prof.

Agriculture

Animal Husbandry
Shaw, A. M., B.S.A. Tor. Prof.
Winters, L. M., M.Sc. Ames. Prof.
Rutherford, W. J., B.S.A. Tor. Dean & Lectr.

Dairying [Prof.
Potts, A. E., B.Sc. Edin., M.S.A.
Devine, J. W. Instr.

Engineering, Agric.
Greig, A. R., B.Sc. McGill Prof.
Hardy, A. E., M.S.A. Ames Prof.
Josephson, H. B., B.S.A. Sask. Asst. Prof.

Farm Management
Allen, W., B.S.A., Ph.D. Corn. Asst. Prof.

Field Husbandry [Prof.
Champlin, M., M.Sc. Sth. Dak.
Kirk, L. E., B.A., M.S.A. Sask. Prof.
Harrington, J. B., Ph.D. Minn. Asst. Prof.

Horticulture
Patterson, C. F., B.A. Tor., Ph.D. Ill. Prof.

Poultry
Baker, R. K., B.A. Man. Prof.
Maw, A. J. G., B.S.A. McGill Instr.

Soils
Joel, A. H., B.Sc. Mich. Prof.
Edmunds, F. B., M.Sc. Liv. Asst. Prof.
Mitchell, J., B.S.A. Instr.

Veterinary Science
Hadwen, S., D.V.S. McGill Research Prof.
Wright, N., V.S. Lectr.
Fulton, J. S., D.V.M. Asst.

Engineering, v. also Agric.

Ceramic E.
Worcester, W. G. Prof.

Civil E.
MacKenzie, C. J., B.E. Dal., M.C.E. Harv. Prof.
Williams, G. M., B.Sc. Neb. Prof.
Spencer, R. A., B.Sc. McG. Prof.

Electrical E.
Lovell, A. J., B.Sc.E.E. Manit. [Asst. Prof.

Mechanical E.
Greig, A. R., B.Sc. McG. Prof.
Fraser, I. M., B.Sc. McG. Asst. Prof.

Extra-Mural Work
Raynor, J. G., B.S.A. Man. Director.
Gordon, K. W., B.S.A. Man. Asst.
De Lury, Abigail Dir. of Home-makers Clubs.

AFFILIATED COLLEGES, ETC.

EMMANUEL COLLEGE, estabd. 1879 for training native helpers at Prince Albert, transferred to its present site in the Univ. grounds in 1909. Principal, W. T. Hallam, M.A., D.D. Courses for Testamur, Lic.Th., B.Th.

ST. CHAD'S, Regina (Church of England).

ST. ANDREWS COLLEGE, Saskatoon. Principal, E. H. Oliver, M.A., Ph.D.

COLLEGE OF PHYSICIANS AND SURGEONS; LAW SOCIETY; DENTAL COUNCIL; PHARMACEUTICAL ASSOCN.; ASSOCN. OF REGISTERED NURSES; VETERINARY ASSOCN.; ASSOCN. OF ARCHITECTS; INST. OF CHARTERED ACCOUNTANTS; OPTOMETRISTS; LAND SURVEYORS.

GENERAL INFORMATION (v. also p. 322)

Established by Act of the Provincial Legislature in 1907, the Univ. opened classes in Arts and Science in 1909 and took over the educational work of the Agricultural Dept. in 1910. Faculties or Colleges of Law and Engineering were opened in 1913 and 1915. The site includes 1340 acres devoted to Agric. Education and Research, and a campus of 300 acres with a half-mile river frontage. The land, buildings, and equipment cost about $3,600,000.

Of the Board of Governors 5 members are elected by the Senate and 3 appointed by Govt.; the President is a member. The Senate (19 members elected by graduates, who also elect the Chancellor, and 13 *ex officio*, including the Minister of Education) regulates educational matters, the administration of which is controlled for the Univ. as a whole by an Academic Council and within each College by the Faculty. The President is a member of each of these bodies, and no appointment or dismissal is made without his recommendation. The maintenance of the Univ. is partially provided for by assignments of revenue and legislative grants. The annual budget exceeds $500,000.

The University conducts the LICENCE EXAMINATIONS for the following professions:—Medicine, Law, Dentistry, Accounting, Architecture, Nursing, Veterinary, Optometry, Pharmacy, Land Surveyors.

LIBRARY, 33,000 vols. LABORATORIES: Chem., Phys., Biol., Bact., Engin., Agric. Engin., Farm (830 a.), Agric. Exper. Fields (450 a.).

FACULTIES. Arts and Science, Agric., Law, Engineering, Pharmacy. School of Accounting.

DEGREE COURSES. 4 yrs., B.A., B.Sc., B.Acc., B.S.P. (Pharmacy), B.S.A. (Agric.), B.E. (Engin.), LL.B. (3 or 4 yrs.); combined B.A. and B.S.A., 6 yrs. This Univ. has the sole right to confer degrees (other than Theol.) in the Province.

HIGHER DEGREES. Examn. open to Bachelors of 1 yr. standing—M.A., M.Sc., M.S.A.

DIPLOMAS AND CERTIFICATES. A 3-yr. course in Agric. leads to the "Associateship in Agric." A 2-yr. certif. course is given in Pharmacy.

OTHER COURSES. Summer School in co-operation with Provincial Department of Education. Short Courses on Agricultural and allied subjects.

FEES. Tuition for degree course in Agric., $36 p.a.; Engin., $45; Acc., $40 to $60; Pharm., $50; Arts and Sc., $3 to $6 each class.

SCHOLARSHIPS FOR GRADUATES. One in Arts or Sc., $100 p.a.; one in Engin., $50; one in Law, $50; one in Agric., $50.

RESIDENCE. Hostels for 200 men and 30 women. Board and room fees, $8 or $9 a week.

UNIV. EXTENSION. In Farming and Home Economics short courses by itinerant lecturers at local centres. Annual convention (one week) in winter; 6 weeks' course in summer for teachers and others at the Univ. Bulletins, fairs and shows.

PUBLICATIONS. *Calendar* (April); *Agric. Bulletins*; *Sheaf*.

THE YEAR 1924–25

NEW BUILDINGS. Chemistry ($700,000), opened during visit of British Association, August 1924.

NEW POSTS. Asst. Profs. of Biology, English, Farm Management, and Household Science.

NEW REGULATIONS. Recognition as *Junior Colleges* granted to Regina College; Campion College, Regina; Academy of Sacred Heart, Regina.

EXTENSION WORK in Agriculture through 154 Agric. Societies, about 20,000 members; Boys' and Girls' Clubs, about 4000; 210 Women's Clubs between 5000 and 6000 members. Tutorial Class students, 559, including Short Courses and Courses for Teachers' Summer Session.

INTERCHANGE OF STAFF. With Manitoba and Alberta.

RESIGNATIONS. Miss Margaret Newton, Miss Patrick. DEATH: A. G. MacGougan.

HONORARY DEGREE. *LL.D.*—Hon. Walter Scott, former Premier of Saskatchewan.

STUDENTS. Full-time, 989 (including women—346). Graduate students, full-time, 12 (women—3), part-time, 4 (w.—1). Preparatory Class students, 48. Resident in colleges or hostels, 320 (w.—90).

OTHER DEGREES CONFERRED. B.A., 70; B.Sc., 15; B.S.A., 13; B.Eng., 12; B.S.Pharm., 1; B.Acc., 3; LL.B., 15; M.A., 5; M.Sc., 4; LL.D., 1.

UNIVERSITY OF TORONTO

with which are federated

VICTORIA UNIVERSITY,
THE UNIVERSITY OF TRINITY COLLEGE, TORONTO, and
ST. MICHAEL'S COLLEGE, TORONTO.

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PRESIDENT—Sir ROBERT A. FALCONER, K.C.M.G., D.Litt.Edin., LL.D., D.D. Edin., D.C.L. Ox.

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SECRETARIES OF OTHER FACULTIES:

MEDICINE—E. S. RYERSON, M.D., C.M.

APPLIED SCIENCE AND ENGINEERING—S. G. BENNETT, B.A.Sc.

HOUSEHOLD SCIENCE—CLARA C. BENSON, Ph.D.

EDUCATION—J. T. CRAWFORD, B.A.

MUSIC—ANNIE W. PATTERSON, B.A.

DENTISTRY—C. C. ROUS, B.A.Sc.

SCHOOL OF GRADUATE STUDIES—NORA MACKENZIE.

BURSAR—F. A. MOURÉ, Mus.Doc.

LIBRARIAN—W. S. WALLACE, M.A.

SUPT. OF BUILDINGS AND GROUNDS—A. D'O. LE PAN, B.A.Sc.

DIRECTOR OF UNIVERSITY EXTENSION AND PUBLICITY—W. J. DUNLOP, B.A.

WARDEN OF HART HOUSE—J. B. BICKERSTETH, M.A.

DIRECTOR OF UNIV. HEALTH SERVICE—G. D. PORTER, M.B.

MEDICAL ADVISER FOR WOMEN STUDENTS—EDITH GORDON, B.A., M.B., D.P.H.

PROFESSORS, LECTURERS, ETC.

Accountancy
Ferguson, W. S. Lectr. (A. and Business).

Anatomy, v. also Biol.
McMurrich, J. P., M.A., Ph.D. [Prof. J.H.U., LL.D. Mich., Cinn.
Watt, J. C., M.A., M.D. Assoc. Prof.
Linell, E. A., M.D. Manc., M.B., Ch.B. Asst. Prof.
Cates, H. A., M.B. Asst. Prof.
3 Demrs.

Architecture
Wright, C. H. C , B.A.Sc. Prof.
Madill, H. H., B.A.Sc. Asst. Prof.
Arthur, E. R., M.A., B.Arch. Liv. Asst. Prof.
Dunington Grub, H. B., B.S.A. Cornell Lectr. (Landscape A.).
4 Instrs., 1 Asst.

Astronomy [Prof.
Chant, C. A., M.A., Ph.D. Harv.
Young, R. K., B.A., Ph.D. Cal. Assoc. Prof.
3 Demrs., etc.

Bacteriology, v. Med.—Path.

Bio-Chemistry
Hunter, A., M.A., B.Sc., M.B., Ch.B. Edin. Prof.
Wasteneys, H., Ph.D. Col. Prof.
Speakman, H. B., M.Sc. Manc. (Zymol.) Assoc. Prof.
6 Demrs. and Fellows.

Biology
Bensley, B. A., Ph.D. Col. Prof. (*Zool.*).
Piersol, W. H., B.A., M.B. Prof. (*Anat.*, *Histol.*, and *Embryology*).
Walker, E. M., B.A., M.B. Assoc. Prof.
Huntsman, A. G., B.A., M.B. Assoc. Prof. (Marine B.).
Coventry, A. F., B.A. Ox. Asst. Prof. (Vertebrate *Embryology*).
Dymond, J. R., M.A. Asst. Prof. (Syst. *Zool.*).
MacArthur, J. W., A.B. Ober., M.A. Wabash, Ph.D. Chic. Asst. Prof. (*Genetics*).
Baillie, W. H. T., M.A., M.B. Asst. Prof. (Mamm. *Anat.*).
Craigie, E. H., B.A., Ph.D. Asst. Prof. (Comp. *Anat.* and *Neur.*).
Harkness, W. J. K., M.A. Lectr. (Limnobiology).
Ford, Norma H. C., Ph.D. Lectr. (*Zool.*).
7 Class Assts.

Botany [Prof.
Faull, J. H., B.A., Ph.D. Harv.
Thomson, R. B., B.A. Prof. (Phan.B.).
Duff, G. H., Ph.D. Asst. Prof. (Plant Physiol.).
Sifton, H. B., Ph.D. Asst. Prof.
Wright, Jessie G., Ph.D. Lectr.
6 Assts., 2 Class Assts.

Ceramics, v. Engineering (Met.)

Chemistry, v. also Eng.
Miller, W. L., B.A., Ph.D. Munich (Physical C.) Prof.
Allan, F. B., Ph.D. (Org. C.) Prof.
Kenrick, F. B., M.A., Ph.D. Leip. Prof.
Burt-Gerrans, J. T., Phm.B., Ph.D. Assoc. Prof.
Rogers, L. J., B.A.Sc., M.A. Assoc. Prof.
Funnell, W. S., M.A. Asst. Prof.
Martin, W. H., Ph.D. Asst. Prof.
Gordon, A. R., Ph.D. Lectr.
13 Assts.

Civic Design, v. Town Planning

Classics : Greek [Prof. (C.).
Hutton, M., M.A. Ox., LL.D.
Owen, E. T., M.A. Assoc. Prof. (C.).
Hamilton, D. E., M.A., D.Paed. Assoc. Prof. (C.).
Robertson, J. C., M.A. (Gk. Lang. and Philos.) W. E. H. Massey Prof. (V.).
Carr, H., B.A., LL.D. (Gk. and Hist. of Philos.) Prof. (M.)
1 Instr. (M.).

Classics : Greek and Latin
Robertson, H. G., B.A., Ph.D. Chic. Lectr. (V.).
Adams, S. M., M.A. Assoc. Prof. (T.).

(C.), (V.), (T.), (M.) = Univ., Victoria, Trinity, St. Michael's College.

Classics : Latin
Smith, G. Oswald, M.A. Ox. Assoc. Prof. (C.).
Dale, E. A., M.A. Ox. Assoc. Prof. (C.).
Duff, D., M.A., B.D. Edin. Asst. Prof. (C.).
Pemberton, R. E. K., M.A. Ox. Lectr. (C.).
Harris, Evangeline, B.A. Tor. and Ox., M.A. Lectr. (C.).
De Witt, N. W., B.A., Ph.D. Chic. (Latin Lit.) Prof. (V.).
Kirkwood, W. A., M.A., Ph.D. Harv. Prof. (T.).
Woodcock, J. N., M.A. Ox. Prof. (T.).
McBrady, R. Prof. (M.).
Walsh, J. B., M.A. Cath. U.A. Assoc. Prof. (M.).
St. John, M., B.A. Lectr. (M.).
1 Fellow (V.).

Dentistry, v. *infra*

Drawing
Cockburn, J. R., B.A.Sc. Assoc. Prof. (Descr. Geometry).
Smither, W. J., B.A.Sc. Asst. Prof. (Struct. Eng.).
Wright, W. J. T., B.A.Sc. Asst. Prof.
Dunbar, W. B., B.A.Sc. Lectr.
2 Instrs., 7 Demrs.

Economics, v. Pol. Econ.

Education, v. also Household Sc., Music
Pakenham, W., B.A., LL.D. Prof. (School Admin.).
Sandiford, P., M.Sc. Manc., Ph.D. Col. Prof. (Educ. Psych.).
Cornish, G. A., B.A. Assoc. Prof.
Crawford, J. T., B.A. Assoc. Prof.
Ferguson, W. C., B.A. Assoc. Prof.
Jones, Geo. M., B.A. Assoc. Prof.
Coombs, F. E., M.A. Assoc. Prof.
Macpherson, W. E., B.A., LL.B. Qu. Asst. Prof.
Carlisle, J. O., M.A. Asst. Prof.
Perry, S. W., B.A. Lectr. (Art & Com. Wk.).
Scarrow, A. N. Lectr. (Manual Train.).
Halbus, F., B.A. McM. Lectr. (Phys. Tr.).
17 Instrs.

Embryology, v. Biol.

Engineering, Chemical, and Applied Chemistry
Bain, J. W., B.A.Sc. Prof.
Ardagh, E. G. R., B.A.Sc. Assoc. Prof.
Boswell, M. C., B.A.Sc., M.A. Harv., Ph.D. Assoc. Prof. (Org. Chem.).
Smith, E. A., M.A. McM. Lectr.
1 Instr., 4 Demrs.

Engineering, Civil, and Applied Mechanics
Gillespie, P., M.Sc., C.E. Prof.
Young, C. R., B.A.Sc., C.E. Prof. (Struct. Eng.).
Laing, A. T., B.A.Sc. Assoc. Prof. (Highway Eng.).
Loudon, T. R., B.A.Sc. Assoc. Prof. (App. Mech.).
Bennett, S. G., B.A.Sc. (Comml. Eng.) Lectr.
2 Instrs.

Engineering, Electrical
Rosebrugh, T. R., M.A. Prof.
Price, H. W., B.A.Sc. Prof.
Zimmer, A. R., B.A.Sc. Asst. Prof.
Guest, W. S., B.A.Sc. Lectr.
Patience, A. M., B.A.Sc. Lectr.
7 Demrs.

Engineering, Mechanical
Angus, R. W., B.A.Sc. Prof.
Allcut, E. A., M.Sc. Birm. Assoc. Prof.
Parkin, J. H., B.A.Sc., M.E. Asst. Prof.
Taylor, R., B.A.Sc. Asst. Prof.
McIntosh, W. G., B.A.Sc. Lectr.
1 Instr., 5 Demrs.

(C.), (V.), (T.), (M.) = Univ., Victoria, Trinity, St. Michael's College.

Engineering, Metallurgical
Guess, G. A., M.A. Qu. Prof.
Newcombe, J. A., B.Sc. Lond. Asst. Prof.
Toomer, J. E., B.S. N. Carolina Lectr.
Montgomery, R. J., Ceramic Engineer, Ohio Lectr. (Ceramics).

Engineering, Mining
Haultain, H. E. T., C.E. Prof.
King, J. T., B.A.Sc. Asst. Prof.
Dyer, F. C., B.A.Sc. Asst. Prof.
7 Demrs.

English, v. also Philos.
Alexander, W. J., B.A. Lond., Ph.D. J.H.U., LL.D. Qu. Prof. (C.).
Wallace, M. W., B.A., Ph.D. Chic. Prof. (C.).
Knox, R. S., M.A. Aberd., B.A. Ox. Assoc. Prof. (C.).
Davis, H. J., M.A. Ox. Assoc. Prof. (C.).
Clawson, W. H., B.A. N.Br., M.A., Ph.D. Harv. Assoc. Prof. (C.).
Wookey, Gladys E., M.A. Lectr. (C.).
Macdonald, J. F., M.A. Spl. Lectr. (C.).
Kirkwood, Mossie M., Ph.D. Spl. Lectr. (C.).
Lobb, Adeline, B.A. Ox., M.A. Lectr. (C.).
2 Fellows (C.), 1 Instr. (M.).
Edgar, O. P., B.A., Ph.D. J.H.U. Gooderham Prof. (V.).
Auger, C. E., B.A. Prof. (V.).
Pratt, E. J., Ph.D. (Spl. Lectr. Med. and Dent. Students) Assoc. Prof.
Robins, J. D., M.A. Assoc. Prof. (V.).
Simpson, H. C., B.A. Ox., M.A. Tor. & Harv. Prof. (E. Lit.) (T.).
Hodgins, L. C. A., M.A. Harv. Assoc. Prof. (T.).
Cartwright, Mabel, B.A., LL.D. Lectr. (T.)
Child, P. A., M.A. Harv. Lectr. (T.).
Perpetua, M., B.A. Assoc. Prof. (M.).
Margarita, M. M., B.A. Assoc. Prof. (M.) (Anglo-Saxon).
Dorothea, M. Lectr. (M.).
Athanasia, M., M.A. De Paul. Lectr. (M.).
Lectrs. for Med. Students:
Daniher, E. L., B.A.
Van Every, J. F., B.A.

Ethnology, v. Philos.
McIlwraith, T. F., M.A. Camb. Lectr.

Forestry
Howe, C. D., M.S. Ver., Ph.D. Chic. Prof.
Millar, W. N., B.Sc. Penn., M.F. Yale Assoc. Prof.
White, J. H., M.A., B.Sc.F., Ph.D. Assoc. Prof.
Dwight, T. W., B.Sc.F., M.F. Yale Assoc. Prof.
1 Asst.

French
Cameron, J. H., M.A. Prof. (C.)
Will, J. S., B.A., Ph.D. Col. Prof. (C.).
De Champ, St. E., B. ès L. Lyons, O.I.P. Assoc. Prof. (C.).
Jeanneret, F. C. A., B.A. Assoc. Prof. (C.).
McKellar, H. S., B.A. Asst. Prof. (C.).
Allen, L., Ph.D. Chic. Asst. Prof. (C.).
Andison, J. G., B.A. Man., A.M., Ph.D. Col. Lectr. (C.).
Poirier, M., L. ès L. Lectr. (C.).
McAndrew, W. J., M.A. Lectr. (C.).

(C.), (V.), (T.), (M.) = Univ., Victoria, Trinity, St. Michael's College.

Cole, Freda A. C., M.A. Lectr. (C.).
Ford, H. E., M.A., Ph.D. Col. Prof. (V.).
De Beaumont, V., M.A. Col. Prof. (V.).
Lacey, A., M.A. Lectr. (V.).
Rowell, Mary C., B.A. Lectr. (V.).
Lasserre, H., B. ès L., B. ès Sc., L. en Dr. Lectr. (V.).
Kittredge, R. E. L., M.A. Harv. Prof. (T.).
Bisson, L. A., M.A. Ox. Assoc. Prof. (T.).
Norton, A. A., B.A. Camb. Lectr. (T.).
Murray, W. H., B.A. Prof. (M.).
Rush, E. L., B.A. Lectr. (M.).
Agnes, M., M.A. Lectr. (M.).
Estelle, M. M., M.A. Lectr. (M.).
Bernard, M., M.A. Lectr. (M.).
4 Instrs. (C.), 1 Instr. (V.), 2 Instrs. (T.), 1 Instr. (M.).

Genetics, v. Biology

Geology
Parks, W. A., Ph.D. Prof.
Moore, E. S., M.A., Ph.D. Chic. (Economic G.) Prof.
MacLean, A., B.A. Assoc. Prof.
2 Class Assts.

German, v. also Philol.
Needler, G. H., B.A., Ph.D. Leip. Prof. (C.).
Fairley, B., M.A. Leeds, Ph.D. Jena Assoc. Prof. (C.).
Hedman, T., Ph.B. Chic. Asst. Prof. (C.).
Holt, G. E., M.A., Mus.B. Asst. Prof. (C.).
Lang, A. E., M.A. Prof. (V.).
Addison, Margt., B.A. Lectr. (V.).
Surerus, J. A., B.A. Lectr. (V.).
Young, A. H., M.A., D.C.L. Prof. (T.).
Scott, Miss L. C., M.A. Assoc. Prof. (T.).
Welty, E. J., B.A. Western Assoc. Prof. (M.).

Hebrew
Rollo, W., M.A. Aberd. Lectr. (T.).

Histology, v. Biology

History
Wrong, G. McK., M.A., LL.D. McG. Prof.
Smith, G. M., B.A., M.A. Ox. Assoc. Prof.
Flenley, R., M.A. Liv., B.Litt. Ox. Assoc. Prof.
Kennedy, W. P. McC., M.A. Ox., Litt.D. Dub. (Spl. Lectr. in *Pol. Econ.*) Assoc. Prof.
Wrong, H. H., B.A. Ox., B.Litt. Ox. Asst. Prof.
Brown, G. W., B.A., Ph.D. Chic. Lectr.
Pearson, L. B., B.A. Ox. Lectr.
Glazebrook, G. P. DE T., B.A., B.A. Ox. Lectr.
Reid, Marjorie G., B.A., B.Litt. Ox. Lectr.

History, Ancient
Milner, W. S., M.A. (Greek and Roman H.) Prof. (C.).
Cochrane, C. N., M.A. Ox. Assoc. Prof. (C.).
Brown, A. Grant, M.A. Ox. Asst. Prof. (C.).
Sissons, C. B., B.A. Nelles Prof. (V.).
Duckworth, H. T. F., M.A. Ox. Prof. (T.).

History of Industrial Art
Currelly, C. T., M.A. Prof.
Harcum, Cornelia, B.A., Ph.D. J.H.U. Asst. Prof.

Household Science
Laird, Annie L., M.S. Drex. Assoc. Prof.
Stewart, Lois K., B.S. Kan., M.S. Wisc. Asst. Prof.
McMillan, Eva M., Ph.B. Chic. Lectr.

(C.), (V.), (T.), (M.) = Univ., Victoria, Trinity, St. Michael's College.

Valentine, Charlotte F., M.A. Lectr.
Ockley, Laura L., B.A. Asst. Prof. in Coll. of Educ.
2 Instrs.

Italian and Spanish
Buchanan, M. A., B.A., Ph.D. Chic. Prof.
Shaw, J. E., A.B., Ph.D. J.H.U. Prof.
Goggio, E., A.B., Ph.D. Harv., M.A. Assoc. Prof.
Patterson, G. C., B.A. Asst. Prof.
Cano, J., A.B. Tol., A.M. Col. Asst. Prof.
Hilborn, H. W., M.A. Lectr.

Law
Davison, J. F., B.A., LL.B. Dal., LL.M. Harv. (Roman L. & Jurisp.) Lectr.
Clute, A. R., B.A., LL.B. Lectr. (L. and Comm. L.).
Foster, H. W. A., LL.B. Lectr.
Laidlaw, R. E., B.A.Sc. Lectr. (Engin. L.).

Mathematics [Prof.
De Lury, A. T., M.A., LL.D. West.
Fields, J. C., B.A., Ph.D. J.H.U., F.R.S. Research Prof.
Mackenzie, M. A., M.A. Camb. Prof.
Beatty, S., Ph.D. Assoc. Prof.
Pounder, I. R., M.A. Assoc. Prof.
Webber, W. J. Asst. Prof.
Stevenson, A. F. C., B.A. Camb. Lectr.
Robinson, D. A. F., M.A. Lectr.
1 Instructor and 3 Fellows.

Mechanics
Loudon, W. J., B.A. Prof.
Sheppard, N. E., M.A. Asst. Prof.

Medicine and Surgery, v. *infra*

Metallurgy, v. Engin.

Military Studies
..... Director.

Cartwright, G. S., C.B., C.M.G. Spl. Lectr.

Mineralogy
Walker, T. L., M.A. Qu., Ph.D. Leip. Prof.
Parsons, A. L., B.A. N.Y. Assoc. Prof.
Thomson, J. E., B.A.Sc. Asst. Prof.
2 Demrs.

Mining, v. Engin.

Music
Fricker, H. A., M.A., Mus.Doc. (Choral and Orch. M.) Lectr.
MacMillan, E., B.A., Mus.Doc. Ox. (Church M.) Lectr.
Mouré, F. A., Mus.Doc. (Hist. of M.) Lectr.
Willan, H., Mus.Doc. (Theory of M.) Lectr.
Bramfitt, G. N., B.A. Lectr. (Coll. of Educ.).

Oriental Lang., v. also Hebrew
Taylor, W. R., Ph.D. Prof. (C.).
Meek, T. J., B.A., B.D. McCorm., Ph.D. Chic. Prof. (C.).
Irwin, W. A., M.A., D.B., Ph.D. Chic. Asst. Prof. (C.).
1 Fellow.
McLaughlin, J. F., B.A., D.D. (Langs. and Lit.) Massey Prof. (V.).
Potter, W. A., M.A., B.D. Prof. (V.).

Philosophy, v. also Classics
Hume, J. G., B.A., A.M. Harv., Ph.D. Frei. (Baden) (Hist. of P.) Prof.
Brett, G. S., M.A. Ox. Prof.
Robinson, T. R., Ph.D. Assoc. Prof.
Anderson, F. H., Ph.D. Asst. Prof.
Tracy, F., B.A., Ph.D. Clark (Ethics) Prof. (C.).
Lane, W. B., M.A., Ph.D. Wisc. (Ethics) Ryerson Prof. (V.).

(C.), (V.), (T.), (M.) = Univ., Victoria, Trinity, St. Michael's College.

Brown, W. T., M.A., Ph.D. Harv. (Ethics) Prof. (V.).
Kingston, G. F., M.A., B.D. King's, Ph.D. (Ethics) Assoc. Prof. (T.).
Windle, Sir B., M.A., M.D., Sc.D., LL.D., F.R.S. (Spl. Lectr. in Ethnology in the Univ.) Prof. (M.).
De Wulf, M., M.A., Ph.D., LL.D. Louvain Prof. (Mediæval P.) (M.).
Roach, W. J., B.A. Prof. (Ethics) (M.).
McCorkell, E. J., B.A., M.A. Cath.U.Am. (Prof. of *English*). Prof. (Social Ethics) (M.).
Bellisle, H. S., B.A., M.A. Cath.U.Am. (Logic) Prof. (Logic) (M.).
Hurley, A. E., S.T.L. (Theodicy) Prof. (M.).
Sullivan, B., M.A. (Soc. Eth.) Lectr. (M.).

Physics, v. also Mechanics

McLennan, J. C., O.B.E., Ph.D., D.Sc., LL.D., F.R.S. Prof.
Burton, E. F., B.A. Camb., Ph.D. Prof.
Satterly, J., M.A. Camb., D.Sc. Lond. Prof.
Gilchrist, L., M.A., Ph.D. Chic. Assoc. Prof.
McTaggart, H. A., B.A. Camb., Ph.D. Assoc. Prof.
16 Demrs., etc.

Physics, Engineering, and Photography

Anderson, G. R., M.A. (also Lectr. in *Dental Physics*) Prof.
1 Instr., 1 Demr.

Physiology

MacLeod, J. J. R., M.B., Ch.B. Aberd., D.P.H. Camb., D.Sc., F.R.S. Prof.
Olmsted, J. M. D., M.A. Ox., Ph.D. Harv. Assoc. Prof.
Taylor, N. B., M.B. Asst. Prof.
1 Demr. and 7 Fellows.

Physiological Chemistry

Benson, Clara C., Ph.D. Assoc. Prof.
1 Instr., 1 Asst.

Political Economy, v. also Hist.

MacIver, R. M., M.A., D.Phil. Edin., B.A. Ox. Prof.
Fay, C. R., M.A. Camb., D.Sc. Lond. (Econ. Hist.) Prof.
Jackman, W., M.A. (Rural Econ.) Assoc. Prof.
Jackson, G. E., B.A. Camb. Assoc. Prof.
Innes, H. A., M.A. McM., Ph.D. Chic. Asst. Prof.
Kemp, H. R., M.A. Lectr.
Bladen, V. W., B.A. Ox. Lectr.
Brady, A., B.A., B.A. Ox. Lectr.
Glazebrook, A. J. (Banking and Finance) Spl. Lectr.

Psychology

Bott, E. A., B.A. Assoc. Prof.
MacPhee, E. D., M.A., B.Educ. Edin. Assoc. Prof.
Blatz, W. E., M.A., M.B., Ph.D. Chic. Asst. Prof.
Chant, S. N. F., M.A. Lectr.
1 Instr., 2 Class Assts.
Phelan, G., M.A. St. Francis Xavier, Ph.D. Louvain (Psychol.) Prof. (M.).

Public Health Nursing [Director.

Russell, Edith K., B.A. King's
Emory, Florence Asst. Director and Lectr.

Public Speaking

Greaves, W. H., M.A. Bost. Spl. Lectr.

Religious Knowledge, v. *infra*, Federated Univs. and Colls.

Social Service, v. also Pub. Health N.

Dale, J. A., M.A. Ox. Prof. (Soc. Science).

(C.), (V.), (T.), (M.) = Univ., Victoria, Trinity, St. Michael's College.

McGregor, Agnes
Director of Field Work.
Macmillan, J. W., B.A., D.D.
Prof. (V.).
12 Lectrs. (part time).

Spanish, v. Italian

Surveying
Stewart, L. B. (S. and Geodesy)
Prof.
Treadgold, W. M., B.A.
Assoc. Prof.
Crerar, S. R., B.A.Sc. Asst. Prof.
Banting, E. W., B.A.Sc.
Asst. Prof.
Melson, J. W., B.A.Sc. Lectr.

Town Planning
Seymour, H. L., C.E. Lectr.

Zoology, v. Biology

Zymology [Assoc. Prof.
Speakman, H. B., M.Sc. Manch.

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology, v. Path.

Dentistry, v. *infra*

Gynæcology, v. Obst.

History of Medicine
Fotheringham, J. T., C.M.G., B.A., M.B., M.D., C.M., LL.D. Qu.
Prof.

Hygiene
Fitzgerald, J. G., M.D. Prof.
Defries, R. D., M.D., D.P.H.
Assoc. Prof.
Fraser, D. T., B.A., M.B., D.P.H.
Asst. Prof.
Moloney, P. J., Ph.D. Asst. Prof.
Porter, G. D., M.B. Lectr.
4 Demrs.

Medical Jurisprudence
Silverthorn, G., M.B. Prof.

Medical Research
Banting, F. G., M.D., LL.D. Qu., D.Sc. Prof.

Medicine and Clinical Medicine
Graham, Duncan A. L., M.B. Prof.
Smith, D. K., M.B. Asst. Prof.
Howland, G. W., B.A., M.B.
Asst. Prof.
Oille, J. A., M.D. Asst. Prof.

Assoc. Profs. of Clin. Med.:
Goldie, W., M.B.
Clarkson, F. A., M.B.
5 Assocs., 29 Demrs., 1 Fellow.

Obstetrics and Gynæcology
Hendry, W. B., B.A., M.B. Prof.
McIlwraith, K. C., M.B.
Assoc. Prof. (Obstet.).
Marlow, F. W., M.D., C.M. F.R.C.S.Eng.
Assoc. Prof. (Gynæc.).
Cleland, F. A., B.A., M.B.
Asst. Prof.
Frawley, N. D., M.B. Asst. Prof.
Wesley, R. W., M.B. Asst. Prof.
3 Assocs., 8 Demrs.

Ophthalmology [Prof.
MacCallum, J. M., B.A., M.D.
Lowry, W. H., M.D., C.M.
Asst. Prof.
Maclennan, D. N., M.D., C.M.
Asst. Prof.
1 Asst., 4 Demrs.

Oto-Laryngology
Goldsmith, P. G., C.B.E., M.D., C.M. Prof.
Royce, G., B.A., M.B. Assoc. Prof.
2 Assocs., 6 Demrs.

Pathology and Bacteriology
Klotz, O., M.B., M.D., C.M. McG.
Prof.
Holmam, W. L., B.A., M.D., C.M. McG.
Assoc. Prof. (Bact.).
Robinson, W. L., B.A. McM., M.B. Asst. Prof. (Path.).
Magner, W., M.D., D.P.H. Lectr.
Bates, J. E., B.A. McM., M.B.
Lectr. (Path.).

(V.) = Victoria College.

Cameron, G. C., M.D.
Lectr. (Bact.).
5 Assts., 3 Fellows, 6 Demrs., 2 Assocs.

Pathological Chemistry
Harding, V. J., D.Sc. Manc. Prof.
Hunter, G., M.A., B.Sc. (Agric.) Glas. Asst. Prof.
3 Fellows, 2 Demrs., 1 Asst.

Pediatrics
Brown, A., M.B. Assoc. Prof.
1 Assoc., 7 Demrs.

Pharmacy and Pharmacology
Henderson, V. E., M.A., M.B.
Prof.
Lucas, G. H. W., Ph.D.
Lectr. (Pharmacol.).
5 Assts., 1 Fellow.

Psychiatry
Farrar, C. B., A.B. Harv., M.D. J.H.U. Prof.

Radiology
Richards, G. E., M.B. Assoc.

Surgery and Clinical Surgery
Starr, C. L., M.B., M.D. Bellevue, N.Y., LL.D. McM.
Prof. (Surg.).
Primrose, A., C.B., M.B., C.M. Edin., F.R.C.S.Eng.
Prof. (Clinical S.).
Bruce, H. A., M.D., F.R.C.S.Eng.
Prof. (Clinical S.).
Starr, F. N. G., C.B.E., M.B., M.D., C.M. Prof. (Clinical S.).

Asst. Profs. of Surg.:
Gallie, W. E., M.D., F.R.C.S.Eng.
Jones, W. W., B.A., M.B., F.R.C.S.Eng.
Beatty, H. A., M.B.
8 Assocs., 25 Demrs., 1 Fellow.

Therapeutics
Rudolf, R. D., C.B.E., M.D., C.M. Edin., F.R.C.P. Lond. Prof.
Johnston, S., M.D.
Lectr. (Anæsth.).
8 Demrs.

Dentistry

Applied Chemistry and Metallurgy
Cowling, T., M.A. McM., D.D.S.
Prof.
Rous, C. C., B.A.Sc. Lectr.

Applied Psychology and Economics
Conboy, F. J., D.D.S. Prof.

Clinical Dentistry
Mason, A. D. A., D.D.S. Prof.
6 Assocs., 10 Demrs.

Crown and Bridge Work
Ante, I. H., D.D.S. Prof.

Dental Anatomy
Ingram, J. W., D.D.S. Prof.
1 Assoc., 2 Instrs.

Dental Ceramics
Coram, J. W., D.D.S. Prof.

Dental Histology
Graham, J. S., M.B. Prof.

Dental Jurisprudence and Ethics
McLaughlin, R. G., D D.S. Prof.

Dental Physics, v. also Physics, Eng. and Phot.
2 Demrs.

Dental Surgery and Anæsthesia
Paul, E. W., D.D.S. Prof.
3 Assocs.

Dental Technics
Cummer, W. E. Prof.
1 Assoc., 1 Instr.

Operative Dentistry
Webster, A. E., D.D.S., M.D.
Prof.
1 Assoc.

Oral Surgery
Risdon, F. E., M.B., D.D.S.
Assoc. Prof.

Orthodontia
Hume, G. G., D.D.S. Prof.
2 Assocs.

Peridontology
Box, H. K., D.D.S., Ph.D. Prof.

Trelford, W. G., D.D.S. Assoc. Prof.
Preventive Dentistry
Seccombe, W., D.D.S. Prof.
1 Assoc.

Prosthetic Dentistry
Cummer, W. E., D D.S. Prof.
Willmott, W. E., D.D.S. Assoc. Prof.
2 Demrs.

COLLEGES OF THE UNIVERSITY

UNIVERSITY COLLEGE. Principal—M. Hutton, M.A., LL.D.; Registrar—G. O. Smith, M.A.

VICTORIA COLLEGE. The Faculty of Arts of Victoria Univ., v. *infra*.

TRINITY COLLEGE. The Faculty of Arts of the Univ. of Trinity College, v. *infra*.

ST. MICHAEL'S COLLEGE. Superior—Prof. H. Carr, B.A., LL.D.; Registrar—Rev. E. J. McCorkell, M.A. Other Teachers: the Profs., etc., marked (M.) in above list.

FEDERATED COLLEGES

ST. MICHAEL'S, v. *supra*.

KNOX COLLEGE and WYCLIFFE COLLEGE. Teachers giving instruction in Univ. courses (*Religious Knowledge*): (1) Knox—R. Davidson, Ph.D.; A. Gandier, D.D., LL.D.; J. T. McNeill, M.A., Ph.D.; W. Manson, M.A.; D. M. Ramsay, D.D. (2) Wycliffe—W. R. R. Armitage, M.A.; B. W. Horan, M.A., B.D.; E. A. McIntyre, M.A., B.D.; T. R. O'Meara, D.D., LL.D.; C. V. Pilcher, M.A., D.D.; W. E. Taylor, M.A., Ph.D.

AFFILIATED COLLEGES

ONTARIO AGRICULTURAL COLLEGE, GUELPH. President—J. B. Reynolds, M.A. 19 Profs., 9 Assoc. Profs., and 15 Lectrs. 18 Demrs. and Instrs.

ONTARIO COLLEGE OF PHARMACY, TORONTO. President of Council—Burwell Griffin; Registrar-Treasurer—J. F. Roberts. Faculty—4 Teachers.

ONTARIO VETERINARY COLLEGE, GUELPH. Principal—C. D. McGilvray, D.V.S.

ALBERT COLLEGE, Belleville; ALMA COLLEGE, St. Thomas; ONTARIO LADIES' COLLEGE, Whitby; ST. HILDA'S COLLEGE, TORONTO (the Women's RESIDENCE for Trin. Coll.).

ONTARIO COLLEGE OF ART.—Principal—G. A. Reid.

GENERAL INFORMATION (v. also p. 322)

An appropriation of 500,000 acres of land for the support of 4 grammar schools and a Univ. in Upper Canada was made in 1798, and a Royal Charter was granted in 1827 for a "King's College" with the privileges of a Univ., but it was not until 1843 that the College was inaugurated. In 1849 its title was changed to The University of Toronto. It was reorganized in 1853 as an examining and degree-conferring body on the model of the Univ. of London. In 1887 it again became a teaching body, the Faculties of Medicine and Law which had been abolished prior to the reorganization of 1853 were revived, the Arts work was divided between the Univ. and Univ. College, and provision was made for the admission of other institutions as Federated Colleges. Vic-

toria, Trinity, and St. Michael's Colleges became integral parts of the Univ. in 1892, 1904, and 1907 respectively.

LIBRARY, 203,777 vols. and 69,218 pamphlets. Annual Grant for books, $29,000; 1800 periodicals and serials received. The (Science) Library of the Roy. Can. Inst. is housed in the same building. MUSEUMS: The Royal Ontario Museums—Archæology, Geology, Mineralogy, Palæontology, and Zoology; departmental museums; Trinity has a Nat. Hist. and Archæol. Museum of its own; the Agric. and Vet. Colleges, Knox, and the Faculty of Dentistry have each one.

LABORATORIES: in all depts. of Applied Science and Engineering as well as Anat., Bio-chem., Biol., Bot., Chem., Geol., Household Sc., Mineralogy, Path., Physics, Physiol.; described in *Bulletin* for Graduate Students. BOTANICAL GARDEN. OBSERVATORY. HOSPITALS available for Clinics: General, 700 beds; Children's, 262; St. Michael's, 400; Western, 120.

FACULTIES. Arts, Medicine, Applied Science and Engineering (Depts.—Archit., Civil E., Mining E., Mech. E., Chem. E., Elec. E., Metall. E.), Household Sc., Education, Forestry, Music, School of Graduate Studies, Dentistry. DEPARTMENTS. Social Service, Public Health Nursing.

UNIVERSITY MATRICULATION BOARD. As a result of a conference of representatives of the Univs. of Toronto, Queen's, McMaster, and Univ. of Western Ont. held in Dec. 1908, the Senates of these Univs. created a Board to conduct and control their annual Matricn. examns. The Dept. of Educn. of Ontario agreed to provide the same machinery for holding these examns. as it employs for the Departmental examns., and the Registrar of the Dept. is Secy. of the Board. In connexion with the Matricn. examns. a report signed by all members of the staff of the school concerned as to the standing of their candidates is taken into account in determining the results.

The subjects of Pass Matricn. are (1) Latin, (2) English, (3) History, (4) Maths., (5) Greek, (6) French, (7) German, (8) Spanish or Italian, (9) Physics and Chemistry, or (10) Agric. For Matricn. in Arts it is necessary to pass in (1) to (4) and any two of (5) to (10) for admission to the Pass Course and with honour standing in at least 5 specified subjects for admission to an Honour Course. In certain cases foreign students may substitute their native language for Greek or French or German.

For Matricn. in the Univ. of Toronto in Med. the requirements are (1) to (4), (9), and any one of (5) to (8) with honour standing in (2), (4), and one of (1) and (5) to (7); in Applied Sc. or Forestry—(2), (3), (4), and any three of (1) and (5) to (10) with honour standing in (2), (4), and one of (1), (5) to (8); in Household Science—(2), (3), (4), (9), and two of (5) to (8) for admission to the Pass Course, with honour standing in at least 4 specified subjects for admission to the Honour Course; in Music—the same as for admission to the Pass Course in Arts; in Dentistry—(1), (2), (3), (4), (9), and one of (5) to (8).

Minimum age for admission to the Faculty of Arts, 16; Law, 21; Med., 17; Appl. Sc., 17; House. Sc., 16; Educ., 19; Forestry, 17; Dentistry, 16.

DEGREE COURSES. 4 yrs.—B.A., B.Com., B.A.Sc., B.Arch., B.Sc. (Med.), B.H.Sc., B.Sc.F., B.S.A. and B.V.Sc. (at Guelph), Phm.B.; 3 yrs.—Mus. B.; 5 yrs.—D.D.S.; 6 yrs.—M.B. Combined courses: B.A. and M.B.—7 yrs.

Certificates of having passed certain examns. of the standard of the Oxford and Cambridge Local School Certif. may enable a student to enter at the second year the B.A. Pass course (but not an Honours course except in Polit. Sc. or Philos.), provided he is not less than 17 yrs. of age.

Students from the British Isles will be admitted to Medicine and Applied Sc.

on submitting certificates of registration with the General Medical Council of Great Britain and the Institution of Civil Engineers.

Honour courses for the B.A. and B.H.Sc. are provided in Household Science.

The first 2 yrs. of the Law course may be taken in Arts in the Univ., the 3 remaining yrs. being taken at Osgoode Hall.

The B.Sc. (Med.) may be obtained by Med. students who, after the 4th or subsequent year of Med. study, having maintained therein a prescribed standard of proficiency, spend a year in an approved course of study, and show facility in reading one modern language besides English.

A student who has already graduated in the Faculty of Arts, Med., or Science of a Canadian or other recognized Univ. may complete the course in Dentistry in 4 yrs. instead of 5, provided he has covered certain prescribed subjects during his undergraduate course; and persons holding the L.D.S. of one of the Med. authorities of Great Britain or the B.D.S. degree of approved Australian Univs. may be admitted in the Faculty of Dentistry without further examn., and to the final D.D.S. examns. on completing one full session at the Faculty of Dentistry.

Higher Degrees. M.A., obtainable by approved course of graduate study extending over 2 yrs. or, in the case of a B.A. in an Honours course, 1 yr.; Ph.D., open to a graduate in Arts (or, on special conditions, another Faculty) of this or another recognized Univ. by pursuing in the Univ. of Toronto an advanced course of study for 3 yrs., exemption from 1 of which may be given in consideration of the candidate having already pursued such a course for 1 yr. A thesis embodying the result of an original investigation is required.

M.D. and Ch.M. obtainable after 3 yr. course open only to graduates in Med. of a recognized Univ. The D.P.H. course (for Med. graduates) covers 11 months—1 winter and 1 summer session.

The M.A.Sc. may be obtained by a B.A.Sc. of this Univ. who pursues a course of advanced study in the Faculty for 1 yr., presents a satisfactory thesis, and passes such examns. as may be prescribed.

The professional degrees, C.E., M.E. (Mining or Mech.), E.E., Chem.E. are open to candidates who, after obtaining the B.A.Sc. or diploma of the Faculty, spend 3 yrs. in the actual practice of one of these branches of engineering, present a satisfactory thesis, and pass examns. The F.E. may similarly be obtained by a B.Sc.F.

The B.Pæd. and D.Pæd. are open to graduates in Arts or Science of any British Univ. who hold a 1st class or High School Asst.'s certif. of Ontario or its equivalent, and pass, after 2 yrs.' (D.Pæd.—3 yrs.) successful experience in teaching, prescribed examns. For the D.Pæd. a thesis is also required, and the candidate must have attended a summer course (or its equivalent) in each subject of examn.

The Mus.D. is open to a Mus.B. of this or another Univ. of 3 yrs.' standing.

The Univ. publishes annually an announcement of *Graduate Courses. All communications on the subject must be addressed to the School of Graduate Studies.*

RECOGNITION BY OTHER UNIVS. (v. pp. 106, 267, 276, 277, 309, 638).

TRAINING OF TEACHERS. Courses are provided for Teachers' certificates of several grades, including the Household Science and the Physical Culture Teachers'. The Educn. Dept. of Ontario grants certifs. on the results of Univ. examns., entitling the holders to teach in the High Schools. All teachers for High Schools and Collegiate Institutes must spend at least 1 yr. in the College of Education.

FEES. Students proceeding to the B.A. and enrolled in one of the Colleges of the Univ. attend lectures of Univ. Profs. and Lectrs. in the Faculty of Arts

without payment of fees except for laboratory supplies. The College Fees, which entitle students to attend lectures in their respective Colleges, amount to $75 p.a. Medical students pay for tuition, laboratory supply, hospital and annual examn., $150 p.a. Certificate courses in the College of Education cost $25 p.a. Forestry, $125 p.a.; Applied Science and Engineering, $150 p.a.; Household Science, $100 p.a.; D.P.H., $150 p.a.; Dentistry, $200 p.a.

SCHOLARSHIPS, etc., open to graduates include $120 for 2 yrs. for Divinity course in Trinity Coll.; Fellowship in Philos., $300; $1000 Prize for Scientific research or invention, open to all Canadians; $1500 Scholarship in Medicine; $500 Fellowship in Anatomy; $750 Fellowships (one or more, each tenable for 3 yrs.) for research in Medicine; and others. War Memorial Scholarships in all faculties.

Two *Mickle* Fellowships (each endowment $25,000) awarded (1) to a member of medical profession as reward for advancement of practical knowledge in med. art or science, (2) to an undergraduate of fifth year in Medicine who obtains honours at that examn. with highest marks. Nine Fellowships, each $500 with free tuition for M.A. or Ph.D.; preference to graduates of Canadian Univs. outside Ontario. Eight of $500 (tutorial Fellowships) open to graduates of any Univ. The Mickle Fellowship was awarded in 1925 to Dr. A. Krogh, Univ. of Copenhagen.

RESIDENCE. University Houses accommodate 150 men, rent, $4 per week; Queen's Hall, residence and board for 98 women at $9.50 per week; Univ. Coll. Houses, residence and board for women (65), about $9.50 per week; Victoria Coll. Halls for 132 men, about $9 per week, and 144 women, $200 to $300 p.a.; Trinity Coll. provides for 80 men and 70 women; St. Michael's (R.C.) has also residences for men and women.

PUBLICATIONS. *President's Annual Report*; *Board of Governors' Report*; *Calendars*, April-May; *Graduate Studies Bulletin*; *Bulletins of the Dept. of University Extension*; *Medical Bulletin*; *Univ. Monthly*; *Can. Historical Review*; *Univ. Studies*; Students' Mags.—*'Varsity, Torontonensis.*

THE YEAR 1924–25

BENEFACTIONS. Rockefeller Foundation for construction of new Hygiene Building, $100,000, and for current expenses, $12,500; Eaton Endowment, annual payment, $25,000; Carnegie Corporation, for Research in Diabetes, $8000; Sir J. A. M. Aikins, for Scholarship in English, $5000; Dr. A. H. F. Barbour, toward Scholarship for Medical Science, $1000; Graduate Fellowships donated by Col. R. W. Leonard ($500), Imperial Oil Co. ($500), Sir Edward Kemp ($500), Robert Simpson Co. (for 1925–26, $500), C.P.R. (for 1925–26, $1500); D. A. Dunlap, for Psychology, $2400; Canadian Oral Prophylactic Assocn., for Research in Dentistry, $1632; A. R. Kaufman Fellowship in Town Planning, $600; Dr. R. A. Reeve Bequest and Prize, $650; Jenkins Bros., Ltd., Scholarship in Engineering, $500; Robert Bruce Scholarship, $458; Hon. N. W. Rowell, for Scholarship, Univ. Schools, $200; Boiler Inspection and Insurance Co., Scholarship in Mech. Engin., $150; smaller donations for prizes, $100; Banting Research Foundation Subscriptions, $635; S. Samuel and F. D. Benjamin, for the purchase of an Echelon Spectrograph, $2500.

NEW BUILDINGS. *Completed*: Forestry Building, $125,000; Trinity College. *Purchased*: one residence, remodelled to accommodate the Dept. of Social Service. NEW DEPARTMENTS. Faculty of Dentistry established by

taking over the building and equipment of the School of Dentistry of the Royal College of Dental Surgeons, formerly affiliated with the Univ.

INTERCHANGE OF TEACHERS. *Visiting*: J. Chapelon, D.Sc. of Paris. *Exchange*: Miss J. G. Wright, Lectr. in Botany, exchanged with Miss E. R. L. Reed of the Univ. of W. Australia.

RETIREMENTS. J. Macnaughton, A. Ham. RESIGNATIONS: J. W. Bridges, U. C. Holland.

HONORARY DEGREES, Aug. 13, 1925 (British Association). *D.Sc.*—Sir D. Bruce, C. de la Vallée Poussin, Gabriel Koenigs, Sir C. A. Parsons, Sir E. J. Russell, Sir Ernest Rutherford, Francesco Severi, W. A. Stekloff. June 5, 1925: *LL.D.*—E. W. Beatty, T. Carscadden, Major-Gen. W. E. Hodgins, Annie C. Macdonald, Right Rev. Neil McNeil. *D.Litt.*—F. W. Shipley. *D.Sc.*—C. E. Saunders. *M.D.*—D. B. Fraser.

OTHER DEGREES CONFERRED. Ph.D., 13, including 2 women; M.A., 71 (women—27); M.A.Sc., 9; M.Arch., 2; C.E., 2; E.E., 1; Chem.E., 1; F.E., 1; B.A., 403 (w.—218); B.Comm., 12; M.B., 142 (w.—13); B.Sc. (Med.), 5 (w.—1); B.A.Sc., 123; B.Arch., 8; B.Pæd., 28 (w.—3); B.Sc.F., 10; Mus.Bac., 2 (w.—1); LL.B., 4; D.D.S., 102; B.S.A., 44; B.V.Sc., 15; Phm.B., 79 (w.—7); D.P.H., 6.

STUDENTS. Full-time, preparing for a first degree, 3750, including 1282 women; total full-time, 3963 (women—1385). Part-time, 63 (w.—44). Occasional, 177 (w.—114). Scholars who proceeded to Europe for further study—Cambridge, 4; Oxford, 5; Paris, 2.

UNIV. EXTENSION. Local lectures, 244; public lectures in the Univ., 40; students attending Univ. Extension classes, 2545.

UNIVERSITY OF TRINITY COLLEGE, TORONTO

CHANCELLOR—J. A. WORRELL, K.C., M.A., D.C.L.
VICE-CHANCELLOR AND PROVOST—C. A. SEAGER, M.A., D.D., LL.D.
DEAN OF RESIDENCE—Prof. L. C. A. HODGINS, M.A. Harv.
REGISTRAR—Prof. J. N. WOODCOCK, M.A. Ox.
LIBRARIAN—Prof. R. E. L. KITTREDGE, M.A. Harv.
PRINCIPAL OF ST. HILDA'S (WOMEN)—Miss M. CARTWRIGHT, B.A.

PROFESSORS, LECTURERS, ETC.

[*See also* the consolidated list under the Univ. of Toronto, names marked (T.).]

Apologetics [Prof.*
Kingston, G. F., M.A., B.D., Ph.D.

Church History [Assoc. Prof.
Morris, H. C. S., M.A. Ox.
Young, A. H., M.A., D.C.L. (Canadian C.H.) Spl. Lectr.

Divinity
The Provost Prof.
Rollo, W., M.A. Aberd. Prof.†
Duckworth, H. T. F., M.A. Ox. Lectr.*
The Provost. Prof.

Homiletics, etc. [Spl. Lectr.
Fotheringham, J. B., B.A.

Old Testament
Mercer, Prof. S. B., M.A., Ph.D., D.D. Prof.*

Pastoral Theology
The Provost. Prof.

Trinity College, established in connexion with the United Church of England and Ireland in 1852, was in 1853 granted a Royal Charter as a University. It is federated with the Univ. of Toronto and, in its Faculty of Arts, forms an integral part of it, but in the Faculty of Divinity remains entirely independent and itself confers degrees. Telegraphic address—Trincoll, Toronto.

LIBRARY, 13,000 vols. MUSEUM, Nat. Hist.

COURSES. L.Th.—4 yrs.; Hons. or Pass B.A. of Toronto and Divinity Testamur—5 or 6 yrs., or, with Hons. in Theol., 7 yrs. Candidates for the B.D. or D.D., if resident outside the Eccl. Provinces of Canada, must be graduates in Arts of 3 yrs.', or ordained clergymen of 5 yrs.' standing. The D.D. is open to B.D.'s of 5 yrs.' standing.

A SCHOLARSHIP of $120 p.a. for 2 yrs. is open to students who have taken an Arts course in the Coll.

PUBLICATIONS. *Yearbook* (July); *Calendar* (May); *Review*, monthly, $1.50; *St. Hilda's Chronicle*, terminally, $1.

THE YEAR 1924–25. New buildings ($1,000,000) were opened Oct. 21, 1925. Temporary residences for students were established. Number of students (1923–24): undergrad., 159, including 41 Divinity students and 67 women; graduate, 13. Degrees in Divinity, 4.

* † Also Prof. (*), Lectr. (†), in the Faculty of Arts.

VICTORIA UNIVERSITY, TORONTO

PRESIDENT—R. P. BOWLES, M.A., D.D., LL.D.
REGISTRAR—C. E. AUGER, B.A.
LIBRARIAN—F. L. BARBER, M.A., Ph.D.

Telegraphic Address: Vicollege, Toronto.

PROFESSORS AND LECTURERS

[*See also* in the consolidated List under Toronto, names marked (V.).]

Homiletics, Past. Theol., Ch. Hist.
Johnston, A. J., D.D. M. Cox Prof.

New Testament, Greek, etc.
Michael, J. H., M.A. Wales.
G. A. Cox Prof.

Public Speaking
Greaves, W. H., M.A. Bos. Prof.

Religious Pedagogy
..... Prof.

Sociology [Prof.
MacMillan, J. W., B.A., D.D. Manit.

Systematic Theology
The President, M.A., D.D. Wes., LL.D. Mt. A. & Tor.
Ed. Jackson Prof.

GENERAL INFORMATION

The Upper Canada Academy was established by Royal Charter in 1836 in connexion with the Methodist Church in Canada. Its name was changed in 1841, when power was obtained to grant degrees in Arts, Theol., Med., and Law, to "Victoria College," and in 1884 to "Victoria University." In 1890 it was federated with Univ. of Toronto, and its Arts Faculty became a College thereof, but it still confers degrees in Theology.

LIBRARY. Special features—Canadian verse and Tennysoniana (C. C. James's collections), Methodism in Canada, Education in Ontario.

COURSES. 4 yrs. in Languages, Anc. Hist. and Ethics for B.A., both Pass and Hons.; 3 yrs. for B.D., the 2nd and 3rd yrs. being subsequent to graduation in Arts; 4 yrs.' conference course for probationers for the Ministry following a 2 yrs.' course taken on circuit; 3 yrs.' conference course for graduates.

HOSTELS for 120 men and 125 women students.

PUBLICATIONS. *Theological Calendar* (May); *Bulletin* (July); *Acta Vict.*, a students' monthly.

THE YEAR 1923–24

BENEFACTIONS. Hamilton Fisk Biggar Scholarship, $5000.

NUMBER OF STUDENTS. Full-time, preparing for B.A., 539, including 284 women; B.D. or Dipl.Th. (graduates), 37; Dipl.Th. (non-grads.), 32; occasional, 18 (4 women).

HONORARY DEGREES. *D.D.*—A. P. Addison (Toronto); C. W. Brown (Saskatoon); F. E. Malott (Belleville); Bishop F. W. Warne (India).

OTHER DEGREES. B.D.—3; Dipl.Th. (graduates), 9; Dipl.Th. (non-grads.), 10.

UNIVERSITY OF WESTERN ONTARIO, LONDON, ONT.

CHANCELLOR—Hon. W. J. ROCHE, M.D., LL.D.

CHAIRMAN OF THE BOARD OF GOVERNORS—Major A. T. LITTLE.

PRESIDENT—.....

REGISTRAR—Prof. K. P. R. NEVILLE, M.A., Ph.D.

BURSAR—W. WAUGH, M.D., LL.D.

LIBRARIANS—F. LANDON, M.A., MARJORIE ROSS, B.A., ETHEL SULLIVAN.

EXECUTIVE SECRETARY—Lieut.-Col. W. J. BROWN, B.S.A., LL.M.

PROFESSORS, LECTURERS, ETC.

Anatomy

McKibben, P. S., B.S. Granv., Ph.D. Chic. Prof.
Macklin, C. C., M.B., M.A., Ph.D. Tor. Prof.
Schaef, H. E., M.D. Instr.
Macklin, Madge T., A.B., M.D. J.H.U. Instr.
Simpson, H. M., M.D., M.Sc. Instr.
Dougall, R. P. I., M.D. Instr.
3 Fellows and 3 Tech. Assts.

Bio-Chemistry

Macallum, A. B., B.A., M.D., Ph.D. Tor. Prof.
James, A. A., M.D. Instr.

Biology, v. Zoology

Botany

Hart, N. C., M.A. Tor. Prof.
McIntosh, Margaret, M.A. Instr.

Chemistry

Slack, J. A., Ph.C. Mass. C. Ph., M.D. Prof.
Gunton, J. A., M.A. McM., Ph.D. Ill. Prof.
Best, N. C., Ph.C. Mass. C. Ph. Assoc. Prof.
Russell, J., M.A. Harv. Asst. Prof.
Burns, J. W., M.Sc. Queen's Asst. Prof.
Rowntree, Gertrude, B.A. Asst.
Chapman, C. W., B.A. Asst.

Classics

Fox, W. S., M.A. McM., Ph.D. J.H.U., Dean of College of Arts Prof.
Neville, K. P. R., M.A. Harv., Ph.D. Corn. (C. & Hist.) Prof.
Auden, H. W., M.A. Camb. Prof.

Economics, v. Polit. Econ.

Elocution

Walker, Jean I. Instr.

English

Tamblyn, W. F., M.A. Tor., Ph.D. Col. Prof.
Spenceley, J. A., B.A. Tor., Ph.D. Harv. Asst. Prof.
Martin, W. Clifford, Ph.D. Corn. Asst. Prof.
Albright, Evelyn, B.A. Tor. Instr.
Neville, J. T., M.A. Lectr.

French and Italian

Wade, Ira, Ph.D. Princeton Prof.

French and Spanish

Collin, W. E., B. ès L. Toulouse Asst. Prof.
Turville, A. Dorothy, Ph.D. Columbia Instr.
Tretheway, W. H., M.A. Tor. Instr.

Geology [Assoc. Prof.
Russell, J. W., M.A. McM.

German
James, N. C., B.A. Tor., Ph.D. Halle, LL.D. Prof.
Allen, R. A., M.A. Tor. Instr.

Hebrew [Prof.
Waller, C. C., M.A. Camb., D.D.

History
Dorland, A. G., B.A. Qu., M.A. Yale Prof.
Landon, F., M.A. Assoc. Prof.

Mathematics
Kingston, H. R., M.A. Qu., Ph.D. Chic. Prof.
Patterson, W. J., M A. Qu. Prof.
Woods, A., M.A. Qu. Asst. Prof.

Medicine, v. *infra*

Philosophy
McIntosh, W. R., B.A. Tor., B D., D.D. Knox Lectr.
Jewett, E. W., B.A. Tor. Lectr.

Physics [Prof.
Dearle, R. C., B.A., Ph.D. Tor.
Allen, R. L., M.A. Mt. All. Asst. Prof.
Foster, Willena, M.A. Tor. Instr.
Brodsky, Capt. G., M.A. Camb. Instr.

Physiology
Miller, F. R., M.A., M.B. Tor., M.D. Mun. Prof.
Laughton, N. B., B.A. Tor., Ph.D. Chic. Assoc. Prof.
Waud, R. A., M.D. Instr.

Political Economy
Freeman, R., M.A. McM., Litt.B. Ox. Assoc. Prof.
MacDonald E. P. W., M.A. Queen's Instr.
Perrin, F. E., B.A. Tor. Lectr.
Curran, F. H., B.A., LL.B. Lectr.

Psychology [Lectr.
Sage, G. B., M.A. Trin., D.D.

Zoology
Robertson, A. D., B.A. Tor. Prof.
Detwiler, J., M.A. Qu., Ph.D. Corn. Asst. Prof.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Eye, Ear, Nose, Throat [Prof.
Thompson, S., M.D., F.A.C.S.
Brown, W. J., M.D., C.M. McG., F.A.C.S. Instr.
Armstrong, J. R., M.D. Instr.

Medicine
Macgregor, J. A., M.D. Prof.
Childs, J. R N., M.D. Assoc. Prof.
Hale, J. C., M D., C.M. McG. Assoc. Prof.
Watson, E. M., M.D., M R.C.P. Edin. Asst. Prof.
Fisher, S. M., M.D. Instr.
Campbell, F. J. H., B A., M.D. Instr.
Hughes, F. W., M.D. Instr.
Bowman, J. T., M.D. Instr.
Pratten, F. H., M.D. Tor. Instr.
Ferguson, D. D., M.D. Instr.
Gordon, R. J., M.D. Instr.
Aitken, G. W. A., M.D. Instr.

Obstetrics and Gynæcology [Prof.
Ferguson, R., B A. Tor., M.D.
Williams, E. L., M.D. Assoc. Prof.
Black, H. H., Ph.B., M.D. Asst. Prof.
Clegg, F. R., M.D. Instr.
Tew, W. P., M.B. Tor. Instr.
Kingswood, R. C., B.A., M.D. Instr.

Pathology and Bacteriology
Bullard, H. H., A.B. Missouri, Ph.D. Tul., M.D. J.H.U. Prof.
Luney, F. W., M.D., D.P.H. Assoc. Prof.
Ramsay, G. A., M.D., F.A.C.S. Instr.
Ballantyne, E. N , B.A., M.D. Instr.
Tew, W. P., M.B. Tor., F.R.C.S. Edin. Instr.
Lamont, J. A., M.D. Instr.
Fletcher, M. C. G., M.D. Instr.

Ferguson, J. A., M.D. Instr.
Wride, R. J., M.D. Instr.

Pediatrics
Tillmann, W. J., M.D. Prof.
Lindsay, J. C., M.B. Tor. Asst. Prof.
Ferguson, J. I., M.D. Asst. Prof.
Denney, W. L., M D. Instr.
Little, H. S., M.B. Tor. Instr.

Pharmacology
Crane, J. W., M.B. Tor. (Dean of Med. Faculty) Prof.
Le Touzel, J. R., M.D., C.M. McG. Asst. Prof.

Psychiatry [Assoc. Prof.
Robinson, W. J., M.B. Tor.
Stephenson, G. H., M.B. Tor. Assoc. Prof.

Public Health
Hill, H. W., M.D., D.P.H. Tor., Dean of Inst. of P.H. Prof.
Downham, W. S., M.D., D.P.H. Lectr.

Radiology
McNeill, G , M.D., F.A.C.S. Prof.

Surgery [Prof.
Williams, H., M D., F.R.C.S.
Wilson, J. C., M.D. Asst. Prof.
Grant, A. J., M.D. Instr.
Ramsay, G. A., M.D. Asst. Prof.
Pritchett, L. W., M.D. Instr.
Reynolds, R. P., M.D. Instr.
Foucar, H. O., B.A., M.D. Instr.
Busby, E. D., M.D. Asst. Prof. G.U. Surgery.

AFFILIATED INSTITUTIONS

HURON COLLEGE. Principal, Prof. of Div. and Hebrew, Rev. C. C. Waller, M.A. Camb. and McG., D.D. Other teachers not on staff of the Univ.: Rt. Rev. Bp. of Huron, D.D., Lectr. in Bib. Exeg.; F. Anderson, M.A., B.D., D.D. Ox., Prof. of Ch. Hist.; Dean L. N. Tucker, M.A., D.C.L., D.D.

ASSUMPTION COLLEGE. President, Prof. of Greek, D. L. Dillon, B.A. Eleven other Profs. of Arts subjects.

URSULINE COLLEGE. Dean and Prof. of French, Mother St. Anne. Twelve other Profs. of Arts subjects.

WATERLOO COLLEGE, Waterloo, Ont. Dean, Alex. O. Potter, Ph.D. Columbia, Prof. of French and Economics.

ALMA COLLEGE, St. Thomas, Ont. Principal, P. S. Dobson, M.A. Ox.

GENERAL INFORMATION (v. also p. 322)

Incorporated by an Act of the Provincial Legislature in 1878 as a College in connexion with the Church of England, the Univ. has become, under the provisions of amending Acts of 1908 and 1923, absolutely undenominational in its government, which is under provincial and municipal control.

FACULTIES. Colleges of Arts, Medical School, Public Health.

DEGREE COURSES. 4 yrs. (from Junr. Matricn.), B.A.; 1 yr., M.A. and M.Sc.; 6 yrs., M.D. Attendance on part of the classes may be dispensed with by the Senate, but all students must have attended lectures in the Univ. for at least 2 yrs. before they can graduate. D.P.H. and C.P.H.N. courses (1 yr.) provided for graduates in Med. and graduate nurses respectively.

Courses leading to B.A. in *Library and Secretarial Science*, B.S. in *Nursing* and *Doctor of Public Health* (a 2-year course following M.D. degree) offered for the first time in 1924–25. 4-year honour course in *Commercial Economics*.

UNIVERSITY EXTENSION. Summer course in Arts lasting 6 weeks includes courses leading to degrees.

PUBLICATIONS. *Calendar* (May); *Univ. Gazette,* weekly during term.

THE YEAR 1924–25

BENEFACTIONS. Dr. H. Meek and Dr. F. R. Eccles bequests, $100,000 each.

REQUIREMENTS FOR DEGREES. Minimum period of residence increased from 1 to 2 years.

NEW AFFILIATIONS. Waterloo and Alma Colleges.

RECOGNITION BY UNIV. OF STATE OF NEW YORK. The Faculties of Arts and Medicine were recognized as "standard."

RESIGNATIONS. L. P. Shanks, to be Assoc. Prof. of French at J.H.U.; E. A. Meras, to be head of Dept. of French in Adelphi Coll. of the Univ. of the City of New York.

HONORARY DEGREES (at opening of buildings on new campus): C. K. Babcock, M. F. Fallon, D. Williams, N. C. James, Sir A. Currie, N. S. B. Gras, F. W. Merchant, G. J. Laing, O. D. Skelton, A. T. De Lury, W. P. Whidden.

STUDENTS. Full-time, preparing for first degree, 547 (including women—149); graduates, 4 (w.—1); total, 552 (w.—155), including 22 from outside Canada. Part-time students, undergraduates, 143 (w.—62); graduates, 9 (w.—6). Occasional, 48 (w.—31). Summer School, 45 (w.—22). DEGREES OBTAINED: B.A., 67 (w.—19); M.A., 2 (w.—1); M.D., 21; M.Sc., 3; B.D., 2.

UNIV. EXTENSION lectures by members of staff in London and adjacent places, 180. Summer Course in Arts, 6 weeks.

THE IMPERIAL COLLEGE OF TROPICAL AGRICULTURE, ST. AUGUSTINE, TRINIDAD

CHAIRMAN OF THE GOVERNING BODY—Sir ARTHUR E. SHIPLEY, G.B.E., LL.D., Sc.D., F.R.S.

VICE-CHAIRMAN—Lieut.-Col. Sir DAVID PRAIN, C.M.G., C.I.E., F.R.S.

PRINCIPAL—Dr. H. MARTIN LEAKE, M.A., Sc.D. Camb., F.L.S.

SECRETARY—ALGERNON ASPINALL, C.M.G., B.A., 14 Trinity Square, London, E.C.3.

REGISTRAR—A. G. HOWELL, St. Augustine, Trinidad.

PROFESSORS, ETC.

Agronomy—Dash, J. Sydney, B.S.A. McGill.

Botany and Genetics—Harland, S. C., D.Sc. Lond., F.L.S.
Lectr.—Cheesman, E. E., B.Sc. Lond., A.R.C.S.

Chemistry—Hardy, F., M.A., Dip. Agr. Camb.
Lectr.—Turner, P. E., B.Sc. Lond., A.R.C.S.

Economics—Shephard, C. Y., B.Sc. Econ. Lond.

Zoology and Entomology—Ballou, H. A., M.Sc. Massachusetts Agr. Coll.
Lectr. — Withycombe, C. L., Ph.D., M.Sc. Lond., D.I.C.

Mycology and Bacteriology—Ashby, S. F., B.Sc. Edin.

Sanitation and Hygiene, Tropical, Lectr.—Seagar, E. A., M.B., Ch.B. Edin.

Sugar Technology — Scott, W. (temporary).

Veterinary Science, Lectr. — Metivier, Capt. H. V. M., O.B.E., B.Sc.Vet.Sc. Lond., M.R.C.V.S.

GENERAL INFORMATION

Incorporated in Sept. 1921 as the outcome of recommendations made by the Tropical Agricultural College Committee (appointed by Viscount Milner in 1919) in their Report (Cd. 562), the College aims at promoting the study of and conducting research in Tropical Agriculture in suitable surroundings and creating a body of British expert agriculturists well versed in the knowledge of the cultivation of land in the tropics, of chemists, and of scientific advisers possessing an intimate knowledge of the means of combating pests and diseases. The College buildings are at St. Augustine, near St. Joseph, Trinidad, on land granted by the Govt. of Trinidad and Tobago. The funds of the College are derived from contributions from Colonies and industries participating in the movement and an Imperial grant. The Imperial Department of Agriculture,

which was founded in 1898 and was amalgamated with the College on April 1, 1922, is administered by the Imperial Commissioner of Agriculture, now the Principal of the College, who corresponds directly with the Colonial Office and the Governments concerned. He supervises the botanic and experiment stations at Grenada, St. Vincent, St. Lucia, Dominica, Montserrat, Antigua, St. Kitts-Nevis, and the Virgin Islands, and advises the Government of Jamaica, British Guiana, Trinidad, British Honduras, the Bahamas, and Bermuda in agricultural matters, including the teaching of agriculture in schools. Up to March 1922 the Department issued the *Agricultural News*, a popular fortnightly review circulating widely in the tropics of the old and new worlds, and the *West Indian Bulletin*, a scientific quarterly dealing specially with tropical research and experiment. Numerous pamphlets dealing with special subjects and annual progress reports on sugar-cane experiments and the work of botanic stations were also issued. The College publishes monthly *Tropical Agriculture*. On the transfer of the headquarters of the Department to Trinidad in Sept. 1922 the services of all the officers were retained in the staff of the college, and remain available for duty in connexion with the work of the Department.

The Foundation Stone of New Buildings and Laboratories was laid by Sir Samuel Wilson, Governor of Trinidad and Tobago, on January 14, 1924.

An Instructional sugar factory, towards which British sugar machinery manufacturers are contributing plant worth £20,000, was opened in 1925.

The academic year extends from October 1 to June 30.

COURSES. (1) Three-years' Diploma Course for giving a thorough training in the science and practice of T.A. to students intending to become tropical planters, investigators, or experts in different branches of Agr. Science or Technology; (2) one-year course in elementary Agr. Science for students unable to afford (1), with some practical acquaintance with the scientific side of tropical planting and the more up-to-date and efficient methods of production and management; (3) courses for Agr. officers selected for Colonial service in T.A. departments.

POST-GRADUATE RESEARCH. Facilities are provided for work in connexion with problems arising in T.A., and more especially those connected with plant pathology, agronomy, and physiological botany.

TUITION FEES: £50 p.a., but a limited number of students from contributing Colonies and industries are admitted, on the nomination of the respective local Govts. and industries, without the payment of tuition fees; other students from contributing Colonies, £25 p.a.

Further particulars are obtainable from either the Secy. at 14 Trinity Sq., London, E.C.3, or the Registrar, St. Augustine, Trinidad, B.W.I.

THE YEAR 1924–25. Full-time students, 34, viz.—3 yrs.' diploma, 18; one-year and special, 5; graduate students (of Empire Cotton Growing Corpn. and Colonial Service), 11. 5 students qualified for the Diploma. New posts: Lectrs. in Tropical Sanitation and Hygiene (Rockefeller benefaction) and Vet. Sc. The Prof. of Botany visited Malaya and Philippines in connexion with search for banana plants and limes immune to Panama disease and wither-tip disease respectively.

THE UNIVERSITIES OF AUSTRALIA

ADELAIDE	MELBOURNE	QUEENSLAND, BRISBANE
SYDNEY	TASMANIA, HOBART	WESTERN AUSTRALIA, PERTH

GENERAL DESCRIPTION

[Summary, corrected to Sept. 1925, of information issued in June 1919 by an Administrative Committee of the Australian Universities through the Education Service of the Australian Imperial Force of which the Committee was a part.]

THE Universities of Australia are dotted all round the Commonwealth and are at great distances from one another and in diverse climates. The mean annual temperatures range between about 70° at Brisbane and 54° at Hobart. Western Australia's nearest neighbour is Adelaide, which is about 1600 miles away by the shortest route. There is, naturally, not much moving about of students from one to another; but in the three younger some of the principal professional courses are not yet provided, and it frequently happens that a student after working in one of them for a year or two transfers to one of the older and more central Univs. where he is granted status in his professional course. As the Univs. are not all uniformly developed, they cannot be quite uniform even in their requirements for entrance. But they exercise all possible reciprocity in the interchange of students. They also give students who come from British Univs. the same status as at Home. Typical of their attitude in this regard is the By-law of Sydney: Undergraduates of other Univs. may, at the discretion of the Professorial Board, be admitted *ad eundem statum* in this Univ. without examn., provided always that they shall give sufficient evidence of their alleged status and of good conduct.

THE COLLEGE SYSTEM. When the Univs. of Sydney and Melbourne were founded provision was made for the establishment of "Colleges of Residence in connexion with different religious denominations." So there came into existence at Sydney, and on the Univ. grounds, "St. Paul's" (Church of England), "St. John's" (R.C.), "St. Andrew's" (Presb.), "Wesley" (Meth.), and, in 1925, as an extension of St. John's, a Hall for women; the Women's College (1890) is undenominational. Similarly at Melbourne, "Trinity" College (C. of E.) was opened in 1872, and was followed by "Ormond" (Presb.), "Queen's" (Meth.), and "Newman" (R.C.). Queensland has "Emmanuel" (Presb.), "St. John's" (C. of E.), "King's" (Meth.), and an "undenominational" Women's Coll., as well as St. Leo's (R.C.). There are no other Univ. Colls. in Australia. All these are self-governing and receive no financial aid from the Univ. They accommodate and teach only a small proportion of the whole number of Australian students; but their importance and influence on Univ. life are not to be gauged by this circumstance.

CONSTITUTIONS. The outstanding feature of the Australian Univ constitutions is the definite and considerable part taken by the State in appointing members of their governing bodies. This is due to the large contributions made to them out of public funds. The newest Univs. have admitted divers other persons, such as representatives of commercial, industrial, scientific, and educational societies, or benefactors, to participate with their graduates in the election of senators or councillors. The constitution of Sydney is the simplest; that of Queensland is outwardly the most comprehensive in its legal conception of the Univ. as "a body corporate consisting of Senate, Council, and graduate and undergraduate members." In Melbourne by a recent revision of the constitution undergraduates elect 2 members of the governing body (Council). In Western Australia undergraduates are enrolled by Act of Parliament in a "Guild" which is given a representative on Convocation, the electing body that may also disallow or propose amendments in any legislation of the Senate. The nomenclature is not consistent. The governing body may be called in one place "Senate," in another "Council"; and the assembly of graduates may be called "Senate"—a term never applied to the professorial body. Sydney alone has a whole-time administrative head.

ADMISSION. Attempts have been made to devise a common matricn., but have been given up. The reason lies in difference of policy as to the part to be taken by entrance examination as a qualifying test, and as to requisite subjects. Generally speaking, matriculation requirements include passing a recognized examn. (school-leaving, matricn., etc.) in English, another approved language (at Sydney, *e.g.*, Latin, Greek, French, German, Italian, or Japanese), Mathematics, and one or more other subjects. Special facilities are offered for matriculation in some Univs. and in some faculties to persons who have attained the age of 25 yrs., provided (Sydney) they give evidence of distinct educational merit and are recommended by a three-fourths majority of the Faculty of Arts and approved by the Senate.

THE UNIVERSITY AND THE PROFESSIONS. The Univ. has always at least one professional school. Thus Queensland's School of Engineering has a high repute. Western Australia is making a specialty of Agriculture. Tasmania has schools of Law, Engineering, and Commerce. Sydney, Melbourne, and Adelaide have each a wide range of schools.

The Engineering schools give a thorough practical training. Rather high entrance requirements are called for in each of the Univs. The curricula extend over 4 yrs. (W. Australia, 5 yrs.), and are arranged with the definite view of giving a sound knowledge of the properties of materials, and the principles of Maths., Phys., Chem., and Mechanics underlying all engineering work, before specialized professional subjects are taken. Owing to several large bequests the Russell School of E. in Sydney is the most fully equipped. It maintains separate departments for Civil, for Mechanical, and for Electrical Engineering, for Mining and Metallurgy. The corresponding Schools in Queensland and Melbourne are also well equipped, and those of Adelaide, Tasmania, and W. Australia, although less comprehensive, are efficient.

Systematic arrangements are made for students to obtain practical experience in workshops or in the field during vacations. The University training is widely recognized as a necessary qualification for professional positions. As a rule graduates in Civil E. enter the State or Federal Public Works Depts., which carry out practically all the large national engineering works, very little in the way of Public Services being left to private enterprise. The experience thus to be gained is very good, although it must be admitted that the emoluments are relatively low. Many graduates in Mining E. have been absorbed in the mining industries of Australia, but a great number—probably the majority—find their way to the larger mining centres of the world where the financial rewards are usually greater. There is a good deal of industrial and commercial engineering in Australia, and men wishing to have the freer scope which this offers usually take the courses in Mech. and Elec. E. In Archit., especially the domestic kind, there is a promising outlook in practically all parts of the Commonwealth. The Sydney School of Architecture represents the lead given by Sydney in this subject, a new one in Australian Universities.

The Medical Schools of Sydney, Melbourne, and Adelaide are among the best in the Empire. They comply with the requirements of the General Medical Council, and there is full reciprocity, in respect of registration of degrees as qualifications to practise, between the U.K. and Australia. The greater part of the Australian medical profession is now trained in these 3 Univs., and distinguished teachers and research workers are continually being brought in to supplement their staffs. High positions are also held by their graduates outside Australia. It is generally felt by Australian medical men who have had experience in Europe among men trained in the Schools of the U.K., that their own training has been even more practical. It is thoroughly British in scope and method, but, in the proportion of hospital facilities to the number of students, it has had some advantages over the training received by the average British student. Whether this impression is or is not correct, it remains true that Australian medical education has reached a high standard, and the equipment of the Faculty is always good and often excellent. Sydney has the advantage of an immense public hospital, on its own grounds, with several others but a short distance away. In Melbourne general hospitals containing 500 beds, and women's and children's hospitals, are close to the Univ. The Genl. Hospl. at Adelaide is within half a mile of the Univ., and after the 2nd yr. the greater part of students' time is spent in it. The work done may also be supplemented by study, after graduation, in the "Australian Institute of Tropical Medicine" at Townsville in Queensland; and a Diploma in Trop. Med. is attainable. The Hall Research Institute in connexion with the Melbourne Hospl. provides facilities for post-graduate work.

In all the Univs. the Faculty of Arts is becoming, with due help from the Faculty of Science, a professional school for teachers. Sydney and Melbourne have Profs. of Education who are also heads of the State Training Colleges. Adelaide has the State Director of Education on its Ed. Committee and Council, and gives a Diploma to graduates in

Arts and Science who take a prescribed course of prof. study and have proper experience of teaching. There is a course in Ed. at Queensland, and every facility is given to teachers to graduate in Arts. Western Australia has a Dept. of Ed., but it is not yet fully organized. An excellent professional equipment for teaching can now be obtained in Australia, and the material rewards of teaching are likely to increase.

The less anciently established professions become associated with the Univs. on obtaining a higher status or a legal organization. Thus Vet. Science, the practice of which is as yet legally controlled in only three States, is now regularly entered in one of these (Victoria) through a Univ. course of study. In N.S.W. its legal constitution recently followed the institution of a Faculty of Vet. Science at the Univ. of Sydney. In N.S.W. and Western Australia, whose Univ. also has a Dept. of Vet. Science, the law requires such qualifications for vet. practice that a Univ. training will become the natural approach to the profession in that State.

PERIODS OF STUDY. The Univ. requires 3 yrs.' study for a B.A. or B.Sc.—4 yrs. if the B.Sc. is taken with Honours. The curriculum for the first degree in Med., formerly 5 yrs., has been lengthened; in Melbourne and Sydney it is 5¾ yrs. and 6 yrs. The time needed to graduate in law may vary; thus Melbourne course takes 4 yrs., but Sydney allows Arts graduates to do their professional studies in 2 yrs. To graduate in Engin. requires 4 yrs.; in Vet. Science, in Agric., in Economics, and in Dentistry also 4 yrs., subject to certain minor variations; in Architecture, 5 years.

ACADEMIC TERMS. In Australia qualifications are reckoned in "Years" and "Courses." But each "Year" is divided into "Terms." The number of Terms in the Year is usually 3. The Year begins in March and ends in Nov. or Dec. The "Long Vacation" comprises Dec., Jan., and Feb., which are the warmest months. Melbourne has 4 terms, the First of 12 weeks; the Second of 10; the Third of 10; and the Fourth, or Examn. Term, of 4. Tasmania also has 4 terms. Queensland has 3 terms and 2 Examn. Periods.

FEES AND COST OF LIVING. The cost of living varies a good deal in different parts of Australia. A student will probably not notice much difference between Sydney and Melbourne in this respect. But anywhere he will find that £225 a year gives him quite sufficient means, for the climate is benign and good food is plentiful. The style of living everywhere is unostentatious. Decent board and lodging should not cost more than 35s. a week. Meals at the cost of 6d. to 2s. 6d. can generally be obtained at the University by members of "Unions" and others. Sydney University Union has a Refectory seating 450, and one half of it is open to all members of the University and their guests. A developed Union at an Australian University also provides all the comforts of a non-residential Club for about £1 a year. Exercise in rowing, football, cricket, and other games may be had in the Sports Clubs on correspondingly easy terms.

Residence at a College is optional. College fees for residence and tuition range from 80 to 100 gs. per annum. Thus Wesley College,

Sydney (Methodist), charges 28 gs. a term for resident students; Ormond, Melbourne (Presb.), from 95 to 110 gs. a year for residence during terms, according to the course being taken. St. John's, Queensland (Anglican), has fees of £21 per term. Special arrangements can always be made for residence during vacations and, for an example, Ormond then charges 2 gs. a week. Many men live in College on a total income of not more than £150 a year; it is doubtful if any will spend double that amount. There are few rich students and no tradition of expensive living among College men, no charming but costly ancient customs. The assistance from Scholarships and Bursaries is generous.

A list of Univ. Fees payable at Melbourne and Sydney is given below. Queensland has composition fees for complete degree courses, which are from 12 to 18 gs. a year in Arts, 20 gs. in Science, and 21 gs. in Engineering. The corresponding fees at Tasmania are £15 to £20 in Arts, £20 in Science, £22½ in Engineering. W. Australia charges fees for examns., degrees, and certifs., but tuition fees only to overseas students. Fees at Adelaide do not differ widely from those at Melbourne and Sydney.

Melbourne. Matricn., 1 g.; Degree, 7 gs.; Degree Courses in Arts, 3 yrs., about 52 gs.; Science, £25 each yr.; Agric., 4 yrs., 81 gs.; Laws, 4 yrs., about 90 gs.; Med., 5⅔ yrs., £225 (including Hospl. Fees); Engin., 4 yrs., £100; Vet. Sc., 4 yrs., £100; Music, 3 yrs., at conservatorium, 32 gs. p.a.

Sydney. Matricn., £3; Degree in Arts, Econ., Sc., Agric., or Vet. Sc., £3; M.D. and M.S., £20; other Degrees, £10; Degree Courses in Arts, 3 yrs., £75; Econ., 4 yrs., £96; Law, £90 (Arts subjects additional); Med., £196 (excluding Hospl. Attendance, 15 gs., and practical Midwifery, 5 gs.); Dent., 4 yrs., £150 (including Dent. Hospl. £10 p.a.); Science, 3 yrs., £99; Engin., 4 yrs., £154 (Min. and Met., £168); Agric., 4 yrs., £118 : 10s.; Vet. Sc., 4 yrs., £114; Archit., 4 yrs., £168.

FREE PASSAGES TO EUROPE. The following free first-class passages are granted annually to Australian and New Zealand Univs. for graduates holding scholarships proceeding to Europe to continue their studies: Adelaide, 3; Melb., 4; Queensland, 3; Syd., 4; Tasm., 2; W. Aust., 3; N.Z., 3; available by any of the following Lines: Aberdeen, Blue Funnel, Orient, P. & O., and, for N.Z. graduates only, N.Z. Shipping and Shaw, Savill, & Albion.

CONFERENCE

After a conference held at Sydney in May 1920 the Australian Univs. established a Standing Advisory Committee to deal with matters of common interest. The temporary headquarters of the Committee are in Melbourne. The Chancellor of Melbourne Univ. acts for the time being as Convener of the Committee, and the Registrar as Honorary Secretary.

A conference of representatives of the Univs. has been held annually since 1921. Among the topics discussed are: Synchronizing the short vacations of autumn and spring; uniformity in standards and titles of Australian degrees; a common first year for degree courses in all faculties; entrance requirements; a London buying agent; public

service in mandated territories; cheap railway fares for delegates attending conferences; customs duties; income-tax on gifts to universities; a Federal Examining University; establishment of a Ph.D. degree; a Central School of Forestry; a sabbatical year; "general science" in public examns.; a catalogue of periodicals.

AUSTRALIAN STUDENTS IN THE HOME UNIVERSITIES, v. Appendix XXII.

UNIVERSITY OF ADELAIDE

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Hon. Sir G. J. R. MURRAY, K.C.M.G., B.A., LL.M., Lieut.-Governor and Chief Justice.

VICE-CHANCELLOR—Prof. W. MITCHELL, M.A., D.Sc.

REGISTRAR—F. W. EARDLEY, B.A.

LIBRARIAN—R. J. M. CLUCAS, B.A.

PROFESSORS, LECTURERS, ETC.

Accountancy
Booth, S. R., M.A. Camb. Lectr.

Agriculture
Richardson, A. E. V., D.Sc. Melb., M.A. Waite Prof.

Agricultural Chemistry
Prescott, J. A., M.Sc. Manc. Waite Prof.

Anatomy
Wood Jones, F., M B, B.S., M.R.C.S., L.R.C.P., D.Sc. Lond. Elder Prof.
Mead, C. S., B.A., M.B., B.S. Demr.

Bio-Chemistry, v. Physiology

Botany [Prof.
Osborn, T. G. B., D.Sc. Manc.
Samuel, G., B.Sc. Lectr. (Plant Path.).
Macklin, Miss E. D., B Sc. (1.1.26). Demr.

Chemistry
Rennie, E. H., M.A. Syd., D.Sc. Lond. and Melb. Angas Prof.
Cooke, W. T., D.Sc. Lectr.
Pennycuick, S. W., D.Sc. Q'ld. Lectr.
Finlayson, H. H. Asst. Lectr. & Demr.

Classics and Comp. Philol. and Lit. [Hughes Prof.
Naylor, H. Darnley, M.A. Camb.
Hollidge, D. H., M.A. Asst. Lectr.

Commerce, v. also Acctcy.
..... Lectr.
Clucas, R. J. M., B.A. (Ec. Geog.) Lectr.
Finlayson, R. N., LL.B. (Indust. and C. Law) Lectr.
Ham, W. (Aus. Industries) Lectr.
MacKay, A. L. G., M.A., Dip.Ed., B.Ec. Syd. (Public Adm. and Fin.) Lectr.
Melville, L. G., B.Ec., A.I.A. (Statistics) Lectr.
Sutton, J. (Bank. & Exch.) Lectr.
Steele, R. M., A.C.U.A. (Com. Practice) Lectr.

Dental Science, v. *infra*

Economics, v. also Com.
..... Lectr.
Mackay, A. L. G., M.A., Dip.Ed. Syd. Asst. Lectr.

Education [Lectr.
Schulz, A. J., Ph.D. Zur., M.A.

Engineering, v. also Mining
Chapman, R. W., M.A., B.C.E. Melb. Prof.

Engineering, Elec.
Clark, E. V., B.Sc. Lectr.

English Lang. and Literature
Strong, Sir Archibald, M.A. Liverpool, Litt.D. Jury Prof.
Kirwood, A. E. M., M.A. Q'ld. Lectr.
Walker, Miss Marjory R. Tutor.

Forestry
Jolly, N. W., B.A. Ox., B.Sc. Prof.
Lea, A. M., F.L.S. (Entomology) Lectr.

French
Crampton, J., B.A. Lond. Lectr.

Geology and Mineralogy
Mawson, Sir Douglas, O.B.E., F.R.S., B E., B.Sc. Syd., D.Sc. Prof.
Madigan, C. T., M.A. Ox., B.Sc. Lectr.

History, Modern
Hancock, W. K., B.A. Melb. (1.1.26) Prof.
Oldham, W., M.A. Asst. Lectr.

Law
Campbell, A. L., B.E., B.A. Syd. (1.1.26) Prof.
Rudall, R. J., LL.B. (Const. L) Lectr.
Finlayson, R. N., LL.B. (Evidence and Procedure) Lectr.
Benham, E. W., LL.B. (Private Internat. L.) Lectr.
Hannan, A. J., M.A., LL.B. (Roman L.) Lectr.
Thomson, H., LL.B. (Wrongs) Lectr.

Mathematics
Wilton, J. R., M.A. Camb., D.Sc. Elder Prof.
Sanders, H. W., B.A. Lectr.

Medicine, v. *infra*

Mining Engineering
Gartrell, H. W., M.A. Col., B.A., B.Sc. Lectr.

Music [Elder Prof.
Davies, E. H., Mus.Doc.

Philosophy
Stewart, J. McKellar, D.Phil. Edin. Hughes Prof.
Garnett, A. C., M.A., D.Litt. Melb. Tutor.

Physics
Grant, K , M.Sc. Melb. Prof.
Burdon, R. S., B.Sc. Lectr.
Fuller, G. R., B.Sc. Asst Lectr

Physiology and Bio-Chemistry
Robertson, T. Brailsford, Ph.D Calif., D.Sc. Prof.
Hicks, C. Stanton, M.Sc., M.B., Ch.B., N.Z. (1.1.26) Marks Lectr. (Applied P) and Sheridan Fellow.
Fuller, W. (Lectr. in Histology) Demr.

Demrs. in P. and Bio-Chem. :
Marston, H. R.
Dawbarn, Miss M C , B.Sc.
Finlayson, Miss Constance M. B , B S , Clinical Bio-Chemist.

Zoology
Johnston, T. Harvey, M.A., D.Sc. Syd. Prof.
Holdaway, F. G., M.Sc., Q'ld. Asst. Lectr.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*.)

Diseases of Children, Med.
Gunson, J. B., M.B , B.S. Clin. Lectr.

Diseases of Children, Surg., v. also Obstetrics
Gilbert, H., M.B., B.S. Clin. Lectr.

Forensic Medicine
Rogers, R. S., M.A., M.D., Ch.M Edin. Lectr.

Gynæcology and Obstetrics
Wilson, T. G., M.D. Syd., F.R.C.S. Edin. Way Lectr.

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Gilbert, H., M.B., B.S. Melb., F.R.C.S.
Magarcy, R. E., M.B., B.S.
Swift, Brian H., M.B., B.Chir. Camb.

Materia Med. and Therap.
Fry, H. K., B.Sc., M.B., B S. Lectr.

Medical Registrar
Lewis, A. J., M.B., B.S.

Medicine and Therap.
De Crespigny, C. T. C., M.D., B.S. Melb., M.R.C.P. Lectr.
Cowan, D. R. W., M.B., B.S. Tutor.

Medicine, Clinical
Lectrs. :
Hone, F. S., B.A., M.B., B.S.
Ray, W., B.Sc., M.B., B.S.

Medicine, Psychol.
Downey, M. H., M.B., B.S. Melb. Lectr.

Ophthalmic Surg. [Gosse Lectr.
Morgan, A. M., M.B., B.S.

Otology [Lectr.
Pulleine, R. H., M.B., C.M. Syd.

Pathology [Marks Prof.
Cleland, J. B., M.D. Syd.
Mocatta, Miss M., M.B., B.S. Clin. Demr.
Gault, Miss E. R., M.B., B.S., B.Sc. Demr.

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Hone, F. S., B.A., M.B., B.S. Lectr.

Surgical and Regional Anatomy
Scott, M. L., M.B., M.S., F.R.C.S. Lectr.

Surgery
Cavenagh-Mainwaring, W. R., M.B., B.S., F.R.C.S. Lectr.
Scott, M. L., M.B., M.S., F.R.C.S. Tutor.

Surgery, Clinical and Operative
Newland, H. S., M.B., M.S. Lectr.
Smeaton, B., M.B., B.S. Clinical Lectr.

Clinical Teachers
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Dental Science

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Reid, F. W., B.Sc. (Metal.).
Trott, L. W., D.D.S. (Mat. Med., etc.).
Fuller, W. (Histology).
Millhouse, E. J., D.D.S. (D. Surg. & Path.).
Smeaton, B., M.B., B.S. (Surg.).
Southwood, A. R., M.D. (Med.).
Newling, P. R., D.D.S. (Operative Dentistry).
Edwards, H. T. J., D.D.Sc. (Orthodontics, etc.).
Brown, Gilbert (Anæsthetics).
Campbell, T. D., D.D.Sc. (D. Anatomy)

Demrs. :
Mead, C. S., B.A., M.B., B.S. (Anatomy).
Edwards, H. T. J., D.D.Sc. (Crown and Bridge Work).
Moore, A. P. R., B.D.S. (Operative Technique).
Brougham, L. A. M. (Prosthetic Technique).

Tutorial Classes

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ROSEWORTHY AGRICULTURAL COLLEGE. Affiliated for parts of the B.Sc. course for Agric. students.

WAITE AGRIC. RESEARCH INSTITUTE.

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The Univ. was established by Act of the Provincial Legislature in 1874 with endowments of £40,000 from Sir W. W. Hughes and Sir T. Elder, and a land grant of 50,000 acres (subsequently repurchased by Govt. for £40,000) as well as a site of 5 acres in the city and a recurrent money grant. Sir T. Elder died in 1897, leaving £65,000 to the Univ. In 1911 the State Parliament sanctioned an additional annual grant and took power to appoint 5 additional members of the Council which, until then, consisted of 20 elected by the Senate. In 1914–19 Mr. Peter Waite presented to the Univ. approximately £55,000 and extensive estates, including a mansion, and in 1920 Sir J. L. Bonython gave £40,000. The annual Govt. grant raised in 1919 by £20,000 is now about £39,600. The value of the endowments is £430,925, and the Income for 1924 was £75,244.

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THE YEAR 1924–25

BENEFACTIONS. Mrs. Agnes Ayres, £500 for general purposes; Old Scholars of the Methodist Ladies' College, £100; Public Subscriptions, £650,

to provide a library in Psychology to commemorate Miss S. E. Jackson; James Gartrell, £200 for an annual prize for Elementary Comparative Philology and Ethnology.

NEW BUILDINGS. Building for Engineering and Physics Depts. proceeding; Waite Agric. Research Institute: Pot Culture House, Chemical Laboratory.

NEW POSTS. Prof. of Agric. Chem.; Marks Lecturer in Applied Physiology and Sheridan Research Fellow; Lectr. in Engl. Lit.; Cancer Research Asst.; Lectr. in Statistics. *Waite Research Institute*: Asst. Chemist, Agronomist, Field Officer.

AFFILIATIONS. St. Mark's Residential College incorporated.

RESIGNATIONS. Coleman Phillipson, Prof. of Law (Dec. 31, 1925); O. W. Tiegs, apptd. Lectr. in Zoology at Melbourne Univ.

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..... Prof. and Dir. of School.

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Archer, R. T. Lectr. (*Dairying*).

Wilson, H. C. Lectr.

French, C. H. Lectr. (*Ag. Entomology*).

Brittlebank, C. C. Lectr. (*Plant Pathology*).

Carmody, P. J. Lectr. (*Horticulture*).

de Castella, F. Lectr. (*Viticulture*).

McDonald, G. W. Lectr. (*Wool Classing*).

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Hurley, L. E., M.D., M.S. Sr. Lectr.

Coates, A. E., M.B., B.S. Stewart Lectr.

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Newton, H. A. S., M.B., M.S., F.R.C.S. Eng. Lectr.

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Sutherland, G. J., Dip. Arch. Lectr.

Alsop, R. H., F.R.I.B.A., F.R.V.I.A. Dir. of Atelier.

Irwin, L., A.R.I.B.A. Asst. Dir. & Lectr.

Clark, E. J., F.R.V.I.A. Lectr.

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Bio-Chemistry, v. Physiology

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McLennan, Ethel I., D.Sc. Sr. Lectr.

Patton, R. T., B.Sc. Sr. Lectr. (Agr. B. and Plant Path.).

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Anderson, V. G. Lectr. (Chem. Works Practice).

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Ampt, G. A., B.Sc. Sr. Demr.
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Scutt, C. A., M.A. Camb. Prof.

Classics Sr. Lectr.
Kerry, W., M.A. Camb. and Melb.
Cornwall, E. W., B.A. Ox. (E.).

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Copland, D. B., M.A., D.Sc. (N.Z.)
Wood, G. L., M.A. Adel.
Lectr. (*Economics*).
Nixon, E. V., F.C.P.A.
Lectr. (*Accountancy*).
Fitzgerald, A. A., F.I.C.A.
Asst. Lectr. (*Acctcy*).
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Lectr. (*Business Principles*).
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Lectr. (*Law*).

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Lodewyckx, A. (v. German) Instr.

Economics, v. Com.

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Smyth, J., M.A., D.Phil. Edin.
Sharman, M. S., M.A., M.Sc.
Sr. Lectr.
Browne, G. Stephenson, M.A., Dip.Ed. Sr. Lectr.
White, Elizabeth, M.A., Dip.Ed.
Sr. Lectr.
Marshall, Isabella D., M.A. Ox. and Dub., Dip.Ed. Camb.
Lectr.
Greig, Jane Stocks, M.B., B.S., D.P.H. Lectr. (Hygiene).
Hoy, Alice, M.A., Dip.Ed. Lectr.
Wilson, H. W., B.Sc. Lectr.

Engineering, v. also Agric.,
Payne, H., M.I.C.E., M.I.M.E.
Prof.
Kernot, W. N., M. Mech. E., M.I.C.E.
Assoc. Prof. (Design, etc.).
Sexton, C. W. N., M.C.E., A.M.I.C.E. (Civ. E.).
Brown, E. B., M.Sc., A.C.G.I.
Sr. Lectr. (Elec. E.).
Darwin, E. R. H., B.Sc. Adel., L.S., A.M.I.C.E. Adel.
Sr. Lectr. (Surveying).
Bassett, W. E., B.E.E.
Sr. Lectr. (Mech. E. and Aerodynamics).
Rennie, E. J. C., M.E.
Sr. Lectr. (Applied Mechanics).

Lectrs.:
Clark, G. C. L., M.M.E., B.Sc. Tasm. (*Mining*).
Callaway, A. E., C.E. (Roads).
Harris, N. C., D.S.O., M.Sc.
(Works Practice.)
Summons, W. E., M.D., B.S., D.P.H. (Ambulance).
Tregoning, A. C., B.C.E.
Sr. Demr. (Civ. E.).
Sublet, F. G. A.
Sr. Demr. (Elec. E.).
4 Demrs.

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Wallace, R. S., M.A. Aberd. & Ox.
Derham, Enid, M.A. Sr. Lectr.
Price, W. T., M.A. Sr. Lectr.
Hodgson, Isabel A., B.A. Tutor.
Berry, Beatrice M., B.A. Tutor.
Martin, Helen W. S., B.A. Tutor.

French [Sr. Lectr.
Chisholm, A. R., B.A. Syd.
Karagheusian, V. N. T. Lectr.
Schollick, Margaret S.
Tutor (Science Students).

Geology and Mineralogy [Prof.
Skeats, E. W., D.Sc. Lond. and Melb., A.R.C.Sc. Lond., F.G.S.
Summers, H. St. J., D.Sc.
Assoc. Prof.
McInerny, Kathleen M. M., M.Sc.
Demr. & Asst. Lectr.
Singleton, F. A., M.Sc. (Agric. G.)
Sr. Lectr.

(E.) = Evening Lectr.

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Hauser, H. B., B.Sc. Sr. Demr.
1 other Demr.

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Lodewyckx, A., M.A., Litt.D.
Coverlid, Dorothea R., M.A. Tutor (Science Students).

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Hurley, L. E., M.D., M.S.

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Foenander, O. de R., LL.M. Evening Lectr.
Ross, L. H. M., B.A. Tutor
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Law [Prof
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Sewell, S. V., M.D. Lectr.
Silberberg, M. D., M.D. Lectr.
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Davies, G. F. S., M.B., B.S. Stewart Lectr.
Carrington, W. L., M.D., B.S. Sr. Demr.

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Surgery [Stewart Lectr.
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Zwar, B. T., M.D., M.S. Lectr.
Devine, H. B., M.B., M.S. Lectr.
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Bronner, R., B.A. Assistant Director.
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QUEEN'S COLLEGE (Methodist). Master, Rev. E. H. Sugden, B.A., B.Sc. Lond., Litt.D.; Vice-Master, K. H. Bailey, M.A., LL.B. Ox.; C. J. Harmer, B.Sc.; Miss Mollison, M.Sc.; G. R. Cameron, M.B., B.S; L. E. Hurley, M.D.; Mrs. Wood, B.A.; W. M. Ball, B.A.; E. H. Brownbill, B.E.E.

NEWMAN COLLEGE (R.C.). Rector, V. Rev. J. M. Murphy, S.J., M.A. Resident Tutors: W. Ryan, S.J., M.A., F.G.S., Dip.Ed.; D. Kelly, S.J., M.A.; D. J. O'Donoghue, B.Sc., B.C.E. Non-Resident: R. O'Sullivan, M.B., B.S., F.R.C.S.; H. B. Devine, M.B., M.S.; T. P. Noonan, M.B., B.S.; Miss I. C. Cookson, B.Sc.; E. Prendergast, M.B., B.S.; T. King, M.B., B.S; D. O'Donnell, B.Sc.; J. A. Clarebrough, D.D.S.

II. AUSTRALIAN COLLEGE OF DENTISTRY. President, W. S. Wilkinson, B.D.Sc., L.D.S., D.D.S.; Prof. F. C. Wilkinson, M.D., B.D.Sc. Liverpool; Supdt., A. G. Poock, B.A., L.D.S. Other Lecturers (excluding those on Univ. staff): Finlay, G., L.D.S, B.D.Sc. (Op. D.); Allen, C. E., D.D.Sc.; Parrett, F. S., L.D.S., B.D.S. (Mat. Med.); Maclure, A. F., M.D., Ch.B. (Or. Surg.); Clark, J. K., L.D.S., D.D.Sc. (D. Anat. and Radiography); Polack, J., D.D.Sc. (Met.); Tuckfield, W. J. (D. Mech. and Met.); Sissons, A. T., B.Sc. (Chem.); Down, C. H., L.D.S., B.D.Sc. (Op. Tech.); Wilkinson, W. S., B.D.Sc., L.D.S., D.D.S. (Orthodontics).

GENERAL INFORMATION (v. also p. 419)

The Univ. was founded in 1853 by Act of the Victorian Legislature. In 1923 a new University Act was passed, increasing the annual endowment for general purposes to £45,000, providing an additional grant of £8500 for Univ. Extension, a Department of Commerce, and Research, and making constitutional changes. The Council is now composed of 31 members—10 elected by graduates, representatives of the teaching staff (5), affiliated colleges (2), and under-graduates (2), 8 appointed by the Govt. (3 being members of Parliament, the others representing business interests and technical schools), 2 *ex officio*, and 2 co-opted members. The legislative functions of the old Senate were transferred to a Standing Committee which, in addition, may submit any matter it pleases for the consideration of the Council. Recognition was accorded in the Act to the Professorial Board and the Faculties. In 1924 the total of Government Grants amounted to £63,641, the total revenue to £154,325, and the total of invested funds to upwards of £300,000. The

grounds, 104 acres, include four 10-acre College sites surrounding a recreation ground of 16 acres.

LIBRARY, including the Med. and Chem. Departs., 45,000 vols. MUSEUMS AND LABS., Anat., Biol., Engin., Geol., Path. (18,000 specimens), Vet. LABORATORIES, Agric., Bact. (investigations undertaken for Govt. Hospitals and Med. practrs.), Chem., Dent., Metall. and Mining (with 3 head stamp battery), Physics, Physiol. VET. RESEARCH INSTITUTE. Werribee RESEARCH FARM. HALL RESEARCH INSTITUTE in connexion with Melbourne Hospl.

FACULTIES. Arts, Sc., Law, Med., Dent., Vet. Sc., Engin. (including Archit., Metall., Mining), Agric., Educn., Commerce. Conservatorium of Music (Director).

DEGREE COURSES: 3 yrs.—B.A. (ordy. and with Honrs.), B.Sc., Mus.Bac.; 4 yrs.—B.Sc. (Honrs.), LL.B., B.D.Sc, Lic.V.Sc., B.V.Sc., B.C.E., B.M.E., B.Met.E., B.E.E., B.Mech.E., B.Agric.Sc.; 5½ yrs.—M.B., B.S.

The first 2 years for the LL.B. may be those of the Arts course. The 2nd year of the B.Agr.Sc. course is passed at Werribee Research Farm.

HIGHER DEGREES. Open to Bachelors of 1 yr.'s standing—LL.M., M.V.Sc.; 2 yrs.'—M.A., M.Sc., M.D., M.S., D.D.Sc., M.C.E., etc.; 3 yrs.'—D.V.Sc.; 4 yrs.'—D.Litt., D.Sc., LL.D.; 5 yrs.'—D.Eng.; 6 yrs.'—Mus.D. Courses of MEDICAL POST-GRADUATE STUDY arranged by special Committee on which Univ. is represented.

DIPLOMAS (which except Dip.Ed. can be taken without Matricn.): Educn., 3 yrs.' course, which may include 2 yrs. of the course for any degree in the Univ.; Analyt. Chem., 9 mos. following Final Hons. in Chem.; D.P.H., open to Med. grads. of Melb. of 1 yr.'s standing and persons who have for 1 yr. been qualified for registration as Med. practr. in U.K., 9 mos.; D.T.M., open to Aus. Med. practrs. of 1 yr.'s standing, 3 mos.; Metall. or Mining, 3 yrs.; Archit., 4 yrs.; Agric., 3 yrs., of which the 3rd is spent at an Agric. Coll.; Commerce, 3 years.

SCHOLARSHIPS, ETC. Aggregate annual value about £8914. Among the more important are £100 in Pathology, £100 for Econ. Research, £100 (for 2 yrs.) in Geol. and in Vet. Anat., £100 in Anat., £100 for Scientific Research.

The Act of 1923 provided for the admission of the following free students: 15 certificated teachers of the Education Dept. *per annum*; 5 other Govt. officers *per annum*; 50 other persons *per annum*. All other certificated teachers and students of Training Colleges are admitted at half fees.

RESIDENCE. The Affiliated Colls. (v. *supra*) accommodate over 400 resident students.

ADULT EDUCATION. Tutorial classes are conducted in the city and suburbs and 6 country centres.

PUBLIC EXAMINATIONS. School Intermediate and School Leaving are held by the Univ. annually in Dec.; the Intermediate qualifies for entry into the State Public Service, the School Leaving certif. qualifies for matricn. The Univ. also arranges for the Inspection of Secondary Schools.

PUBLICATIONS. *Calendar*, 3s. net, includes list of publicns. by members of staff; *Univ. Mag.*; *Univ. Review*; *Speculum* (Med. Students' Journal); *Examn. Papers*, 1s.; *Students' Handbook*, 1s.; *Handbook of Pub. Examns.*, 2s. 6d.; *Conservatorium Prospectus*; *Manual of Pub. Examns. in Music.*

The UNIVERSITY PRESS, founded in 1921, has published several important books by members of the Univ., embodying results of research in subjects peculiar to Australia. Messrs Macmillan & Co. act as distributing agents.

It conducts an exchange business in text-books, and caters for students' requirements in stationery and apparatus.

THE YEAR 1924–25

BENEFACTIONS. For scholarships and bursaries: Mrs. W. G. Sharp, £1000; Mrs. D. Thompson, £500; Mr. and Mrs. R. J. Alcock, £1000; Mrs. E. R. Moran, £7000. E. Stevens, a clock for tower.

NEW BUILDINGS, ETC. Laboratories for Metallurgy, Organic Chemistry, Bio-Physics and Bio-Chemistry; addition to general library and alteration of Medical and Chemical Library. Total cost, £29,000.

NEW DEPARTMENT of Commerce with Professor and five lecturers. New professorship of Dentistry. Prof. Copland came from the Univ. of Tasmania, Prof. Wilkinson from Univ. of Liverpool.

RESIGNATIONS. Prof. A. E. V. Richardson, to accept post in Adelaide Univ.; Prof. W. A. Laver; Dr. S. C. Lazarus.

STUDENTS (1924). Full-time, preparing for first degree, 2423, including 659 women, of whom 363 men and 65 women resided in colleges. Part-time students, 26 (women—7); occasional, 83 (women—10). Attending Univ. Tutorial classes, 852; correspondence course students, 272.

DEGREES CONFERRED (1924): B.A., 129 (women—54); B.Sc., 41 (w.—8); LL.B., 37; B.C.E., 13; B.M.E., 2; B.Mech.E., 2; B.E.E., 8; Mus.B., 2 (w.); B.D.Sc., 32 (w.—4); B.V.Sc., 8; B.Ag Sc., 3; M.A., 36 (w.—15); Litt.D., 1; M.B., B.S., 131 (w.—19); M.D., 14 (w.—4); M.S., 1; LL.M., 7; M.C.E., 7; M.M.E., 1; M.E.E., 2; M.Sc., 7 (w.—2); D.Sc., 4. M.A. as special grace—Very Rev. J. M. Murphy and Prof. C. A. Scutt.

UNIVERSITY OF QUEENSLAND, BRISBANE

CHANCELLOR—Rt. Hon. Lt.-Col. Sir MATTHEW NATHAN, G.C.M.G., R.E., Governor of Queensland.

VICE-CHANCELLOR—Hon. A. J. THYNNE.

REGISTRAR AND LIBRARIAN—F. W. S. CUMBRAE-STEWART, D.C.L. Ox., Barr.-at-Law.

PROFESSORS, LECTURERS, ETC.

Architecture and Building Construction, History of
Foster, A. H. Part-time Lectr.

Biology
Goddard, E. J., B.A., D.Sc. Syd. Prof.
Cayzer, A., B.Sc. Syd. Lectr.
Herbert, D. A., M.Sc. Lectr.
Hardy, G. H. Fellow in Economic B.

Chemistry
Steele, B. D., D.Sc. Melb., F.I.C., F.R.S. Prof.
Bagster, L. S., B.Sc. Melb., D.Sc. (Applied C.) Lectr.
Jones, T. G. H., B.Sc. Syd., A.I.C. Lectr.
O'Connor, E. A., M.Sc. Melb. Sr. Demr. & Asst. Lectr.
Perkins, F. A., B.Sc.Agric. Research Fellow in Applied C.

Classics
Michie, J. L., M.A. Camb. Prof.
Castlehow, S., M.A. Ox. Lectr.

Engineering
Hawken, R. W. H., B.A., M.E. Syd., M.I.C.E. Prof.
Boyd, A., D.Sc. Lond., B.E., M.I.E.E., A.M.I.C.E. Lectr. (Mech. & El. E.).
Ross, C. N., M.Sc., B.M.E. Melb. Lectr. (Civ. E.).
Sr. Demr. & Asst. Lectr.
Munro, A. R., A.M.I.C.E., A.M.I.M.E. 8 Hony. Lectrs.

English Language and Lit.
Stable, J. J., M.A. Camb. McCaughey Prof.

Geology and Mineralogy
Richards, H. C., D.Sc. Melb. Prof.
Bryan, W. H., M.Sc. Lectr.

History and Economic Science
Alcock, H., M.A. Ox. McCaughey Prof.
Melbourne, A. C. V., M.A. Adel. Lectr. in Econ. and Colonial H.
Gifford, J. L. K., M.A. Glas. Lectr.

Mathematics
Priestley, H. J., M.A. Camb. Prof.
Priest, H. J., B.A., B.Sc. Adel. Lectr.
Swanwick, K. Ff., B.A., LL.B. Syd. Evening Lectr.

Medical Psychology
Lowson, J. P., M.A., M.D. Edin. Research Prof.

Modern Languages
Robinson, F. W., M.A. Syd., Ph.D. Jena Lectr.
Schindler, C., M.A. Lectr.

Philosophy
Scott-Fletcher, M., M.A. Syd., B.Litt. Ox. Prof.
Kyle, W. M., M.A. Lectr.

Physics
Parnell, T., M.A. Camb. Prof.
Lusby, S. G., M.A. Syd. Asst. Prof.
Rimmer, T., M.Sc. Manc. Sr. Demr. & Asst. Lectr.

Surveying [Part-time Lectr.
James, F. W., B.Sc.

Correspondence Studies
Jones, T. E., B.A. Syd. Director.
Darvall, Annie E., B.A. Asst.

Workers' Tutorial Classes
Molesworth, B. H., M.A. Director.

RECOGNIZED RESIDENTIAL COLLEGES

EMMANUEL (Presb.). Principal—Mervyn Henderson, M.A. Camb.

ST. JOHN'S (C. of E.). Warden—Rev. W. H. W. Stevenson, M.A. Syd.

KING'S (Methodist). Master—H. H. Trigge, M.A., B.D.

ST. LEO'S (R.C.). Rector—Rev. E. A. Stanaway.

WOMEN'S (undenominational). Principal—Freda Bage, M.Sc. Melb., F.L.S.

GENERAL INFORMATION (v. also p. 419)

The Univ. was established by an Act of the local legislature in 1909. The entire management and control are in the hands of a Senate of 20 members, of whom 10 were appointed by the Government and 10 were elected by the Council (consisting of all members and past members of the Senate, graduates of the Univ. of 3 yrs.' standing, persons appointed by the Govt. as representatives of Commercial, Industrial, Scientific, etc., Assocns., benefactors, etc.). The annual grant from Govt. was £10,000 until 1917, when it was raised to £15,000. In 1922 it was raised to £20,000. Under the will of the late Sir Samuel McCaughey, the Univ. receives an annual income of about £8500.

The grounds, facing the Brisbane River and adjoining the Botanical Gardens, include, in addition to the main building and recreation grounds, 6 departmental buildings and the Central Technical College.

LIBRARY, 24,000 vols. LABORATORIES: Biol., Chem., Applied Chem., Engin., Geol., Metall. and Assaying, Physics.

FACULTIES. Arts, Science, Engineering.

DEGREE COURSES. 3 yrs.—B.A., B.Sc.; 4 yrs.—B.Sc. Honours, B.Sc. (Applied) in Industrial Chem., B.E. in Civ., Mech. and Elec., Chem., or Mining Engin.

A Diploma Course in Mech. and Elec. Engin. (may be followed in any approved Coll. or Instn.), 4 yrs.; a Diploma course of at least 2 yrs. for persons who have had 3 yrs.' practical experience of Journalism; a Diploma course in Commerce.

HIGHER DEGREES. M.A. and M.Sc., open to B.A. and B.Sc. of 2 yrs.' standing, through examn. (M.A., examn. and thesis). M.E., open to B.E. of 3 yrs.' standing, 25 yrs. of age, engaged in professional work. D.Sc. open to M.Sc. of 5 yrs.' standing by examn. and thesis.

EVENING LECTURES AND EXTERNAL STUDENTS. Evening students may extend their course over 5 yrs. in Arts and Sc. No evening work in Engin subjects is done, but by 5 yrs. of evening work elsewhere exemption from the first 2 yrs. of the B.E. course may be obtained.

Persons who having matriculated are unable to attend lectures at or in connexion with the Univ. may pursue certain courses under the guidance of the Director of Correspondence studies. They may thereby, provided they pass the prescribed examns. (which may be held at local centres), qualify for a B.A. degree.

ADULT MATRICULATION. Candidates who have attained the age of 25 yrs. may be admitted to matricn. in the Faculties of Arts, Science, and Engineering upon passing a special examn.

SCHOLARSHIPS, ETC., FOR GRADUATES. 2 gold medals offered by Govt. for distinction at graduation; £100 for 2 yrs. for Chem. Research; £200 for 1 yr. for Engin. work; £250 for study outside Australasia; £300 for 3 yrs. (W. and E. Hall Foundation), of which 2 to be spent abroad in Engin. Research; £500 for 2 yrs. in Econ. Biol.

RESIDENCE. Undergraduates are required to reside with their parents or approved friends or a tutor or in a recognized Residential Coll. or boarding-house licensed by the Senate. Fees in the Colleges, including residence, commons, and tuition, 20 gs. a term (Women's £20, St. Leo's £20).

PUBLIC EXAMINATIONS are held by the Univ. annually in Nov. and Dec.: Junior, Junior Commercial, and Senior. For matriculation the corresponding public examns. of the Univs. of Adelaide, Melbourne, and Sydney are treated as equivalent to these.

PUBLICATIONS. *Calendar*, 2s. 6d.; *Manual of Pub. Examns.*, 1s.

THE YEAR 1924

NEW POSTS. Garrick Prof. of Law; addl. Lectr. in Dept. of Biology.

DEGREES CONFERRED. B.A., 33 (including 14 women); M.A., 2; B.Sc., 10 (women 3); B.Sc. App., 1; M.Sc., 3; B.E., 6; M.E., 1.

NUMBER OF STUDENTS. Matriculated, 63, including 40 women.

UNIVERSITY OF SYDNEY

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Hon. Sir WILLIAM PORTUS CULLEN, K.C.M.G., M.A., LL.D., Chief Justice of N.S.W.

DEPUTY-CHANCELLOR—CECIL PURSER, B.A., M.B., Ch.M.

VICE-CHANCELLOR—Emeritus Professor Sir MUNGO W. MACCALLUM, K.C.M.G., M.A., LL.D., D.Litt.

REGISTRAR—W. A. SELLE, M.A.

LIBRARIAN—H. M. GREEN, B.A., LL.B.

TUTOR TO WOMEN STUDENTS—ISABEL M. FIDLER, B A.

PROFESSORS, LECTURERS, ETC.

Accountancy, v. Com.

Agriculture

Watt, R. D., M.A., B.Sc. Prof.

Lectrs.:

Waterhouse, W. L., B.Sc.Agr. (Plant Path. and Agr. Bot.).

Wright, G. (A. Chem.).

Anderson, R. H., B.Sc.Agr. (Forestry).

Wolstenholme, E. K., F.L.S. (Fruit Culture).

Anatomy

Burkitt, A. N. St. G. H., M.B., B.Sc. Challis Prof.

..... Assoc. Prof.

Lectrs. and Demrs.:

Maguire, F. A., D.S.O., M.B., Ch.M., F.R.C.S.

Coen, B. J., M.B.

Smith, S. A., M.B., Ch.M. Lectr.

Demrs.:

Storey, J. C., O.B.E., M.B., Ch.M., F.R.C.S.

Teece, L. G., M.D., Ch.M.

Fisher, E. M., M.B., Ch.M.

Chapman, C. L., M.B., Ch.M.

Silverton, R J., M.B., Ch.M.

Latham, O., M.B., Ch.M.

Coppleson, V. M., M.B., Ch.M.

Wilkinson, H. J., M.B., Ch.M. Lectr.

Murray, R. E., B.Sc.

Matthews, G. P.

Anthropology [Prof.

Brown, A. Radcliffe, M.A. Camb.

Architecture [Prof.

Wilkinson, L., F.R.I.B.A., F.I.A.

Hook, A. S., A.R.C.A. (Constn.) Lectr.

Carter, N. (Freehand Dr.) Instr.

Moore, J. D. (Design) Lectr.

Berry, J. L. (Med. Arch.) Lectr.

Harris, R. K., A.R.I.B.A. (Town Planning) Lectr.

1 Demr., 1 Studio Asst.

Astronomy

Cooke, W. E., M.A. Prof.

Sawkins, D. T. (v. Econ.) Lectr. (Geodesy & A.)

Botany, v. also Agric

Lawson, A. A., D.Sc. Prof.

McLuckie, J., M.A. Glas., D.Sc. Asst. Prof.

Brough, P., M.A., B.Sc., B.Sc.Agr. Glas. Lectr. & Demr.

2 other Demrs.

Chemistry

Fawsitt, C. E., D.Sc. Edin., Ph.D. Leip. Prof.

Schofield, J. A., A.R.S.M., F.I.C. Assoc. Prof.

Lectrs. & Demrs. :
Brereton, E. Le G., B.Sc.
Burrows, G. J., B.Sc.
Wark, I., D.Sc. Melb., Ph.D. Lond. Lectr.
6 other Demrs.

Chem. Engineering, Technology and Metallurgy
Eastaugh, F. A., A.R.S.M., F.I.C. Assoc. Prof.

Chem., Organic, Pure and Applied
Kenner, J., D.Sc. Lond., Ph.D. Heid. Prof.
Harker, G., D.Sc. Lond. Lectr.
Earl, J. C., B.Sc. Adel., Ph.D. St. And. Lectr.
1 Demr.

Classics
Woodhouse, W. J., M.A. Ox. (Greek) Prof.
Todd, F. A., B.A., Ph.D. Jena (Latin) Prof.
Powe, A. B., M.A. Q'ld (Latin) Lectr.
Robinson, A. H., M.A. (Latin) Lectr.
Shipp, G. P., B.A. Lectr.
Elliott, J. R., B.A. Asst. Lectr. (Latin).

Commerce
Wolfenden, E. S., F.C.P.A., A.I.A. (Acctcy.) Lectr.
Cleary, W. J., B.Ec. (Business) Lectr.
Bradley, W. J., B.A., LL.B. (Com. and Indust. Law) Lectr.

Dentistry, v. *infra*

Economics
Mills, R. C., LL.M. Melb., D.Sc. Econ. Lond. Dean and Prof.
Benham, F. C., B.Sc. (Econ.) Lond. Lectr.
Portus, G. V., B.Litt. Ox., M.A. (E. Hist.) Lectr.
Bland, F. A., M.A., LL.B. (Pub. Admn.) Lectr.
Watts, P. R., B.A., LL.B. (Mod. Pol. Institutions) Lectr.
Sawkins, D. T., B.A. Camb., M.A. (Statistics) Lectr.

Education
Mackie, A., M.A. Prof.
Cole, P. R., M.A., Ph.D. Col. Lectr.
Roberts, T. T., M.A. Lectr.
Cameron, R. G., M.A. Lectr.
Phillips, G., M.A., D.Sc. (Exper. E.) Lectr.

Engineering, v. *infra*

English Language
Holme, E. R., O.B.E., M.A. McCaughey Prof.

English Literature
MacCallum, M. W., M.A., LL.D. Glas., D.Litt. Hon. Prof.
Brereton, J. Le Gay, B.A. Prof.
Waldock, A. J. A., M.A. Lectr.
Mackay, Sheila G., B.A. Asst. Lectr.

Forestry, v. Agric.

French
Nicholson, G. G., C.B.E., B.C.L. Ox., M.A. Prof.
Marks, Gladys, B.A. Lectr.
Bonnet, Paul Lectr.

Geodesy, v. Astron.

Geography
Taylor, T. G., D.Sc., B.E. McCaughey Assoc. Prof.

Geology and Phys. Geog.
Cotton, L. A., M.A., D.Sc. Prof. & Hovell Lectr.
Browne, W. R., D.Sc. Asst. Prof.
Waterhouse, L. L., B.E. Lectr. & Demr.
Powell, Dorothy E., B.Sc. Demr.
Brown, Ida A., B.Sc. Demr.
Dun, W. S. (Palæont.) Lectr.
Quodling, Florrie M., B.Sc. Demr.
Drummond, Heather B., B.Sc. Demr.

German and Comparative Lit.
Waterhouse, E. G., M.A.
McCaughey Assoc. Prof.

History, v. also Econ.
Wood, G. A., M.A. Ox.
Challis Prof.
Bruce, J. F., B.A. Ox., M.A. Lectr.

Japanese, v. Oriental

Law, v. *infra*

Mathematics, Pure and Applied
Carslaw, H. S., M.A., Sc.D. Camb., D.Sc. Glas. Prof.
Lyons, R. J., B.A. Camb. Lectr.
Wellish, E. M., B.A. Camb., M.A. (Appl. M.) Lectr.
Thorne, H. H., M.A. Camb., B.Sc. Lectr.
Walker, G., M.Sc. Asst. Lectr.

Medicine, v. *infra*

Mining
Power, F. D., F.G.S. Russell Lectr.

Oriental Studies
Sadler, A. L., M.A. Ox. Prof.
Okada, R. (Japanese) Reader.
Matsui, R. (Japanese) Reader.

Philosophy [Challis Prof.
Muscio, B., M.A. Syd. and Camb.
Rivett, Doris M., B.A.
Asst. Lectr.

Physics
Vonwiller, O. U., B.Sc. Prof.
Bailey, V. A., M.A., D.Ph. Ox.
Assoc. Prof.
Lectrs. & Demrs.:
Booth, E. H., B.Sc.
Briggs, G. H., B.Sc.
1 Temp. Lectr. & 2 other Demrs.

Physiology [Prof.
Chapman, H. G., M.D., B.S. Melb.
Priestley, H., M.D., Ch.M., B.Sc.
McCaughey Assoc. Prof.
Lectrs. & Demrs.:
Cotton, F. S., B.Sc.
McQuiggin, H. G., B.Sc.
Wardlaw, H. S. H., D.Sc.
Hindmarsh, Ellen M., B.Sc.
Demrs.:
Ingram, W. W., M.D., Ch.B.
Horsfall, W. N., M.B., Ch.M.

Preventive Medicine
Sutton, Harvey, M.D, Ch.B., D.P.H. Melb., B.Sc. Ox. Lectr.

Psychology
Lovell, H. T., M.A., Ph.D. Jena
McCaughey Assoc. Prof.
Martin, A. H., M.A., Ph D. Col. Lectr.
Doig, B. C., B.A. Demr.

Surveying [Russell Lectr.
Craig, A. D., B.A., B.E.
3 Demrs.

Veterinary Science
Stewart, J. D., M.R.C.V.S., B.V.Sc. Prof.
Dodd, S., F.R.C.V.S., D.V.Sc. Melb. (Path., etc.) Lectr.
Gunn, R. M. C., B.Sc (Agr.), Birm. & Syd., M.R.C.V.Sc. (Surg. & Anat.) Lectr.
Henry, M., B.V.Sc. (State Vet. San. Sc.) Lectr.
Clunies-Ross, I., B.V.Sc. (Vet. Parasitology, Mat. Med. and Pharmacy) Lectr.

Zoology [Challis Prof.
Harrison, L., B.A. Camb., B.Sc.
Briggs, E. A., M.Sc.
Lectr. & Demr.
Chase, Eleanor E., B.Sc.
Lectr. & Demr.
Wood, Lucy M., B.A. Demr.
Nicholson, A. J., M.Sc. Manc. (Entom.) McCaughey Lectr.

Engineering, v. also Chem., Mining

Miller, W. A., B.Sc., M.E., A.M.I.C.E. Challis Prof.
Vogan, H. J., B.E.
Lectr. & Demr.
Debenham, A. J., B.E. Lectr.
Larkins, H. M., B.E. Lectr.

Carleton, G. B., M.E. Lectr.
Vicars, J., M.E. Lectr.
Hodgson, C. A., M.A. (Camb.) Lectr.
2 Demrs.

Electrical E.
Madsen, J. P. V., B.E., D.Sc. Adel. Russell Prof.
Lectrs. & Demrs. :
Sharp, L. H., B.Sc., B.E.
Campbell, E. F., B E.

Mechanical E.
Barraclough, Sir S. H. E., K.B.E., M.M.E. Corn., B.E., M.I.M.E, M.I.C.E. Russell Prof.
Sutherland, G. F., A.R.C.S. Asst. Prof.
Lectrs. & Demrs. :
Swain, H. J., B.A., B.Sc., B.E.
Gibson, W. H. H., B.Sc., B.E.
Hart, K. R. M., B.Sc., B.E.
3 Hon. Lectrs.

Law, v. also Com.

Peden, The Hon. J. B., M.L.C., B.A., LL.B. Challis Prof.

International Law & Jurispr.
Charteris, A. H., M.A., LL.B. Edin. Challis Prof.

Contracts, Merc. Law, Torts
Street, K. W., B.A., LL.B. Challis Lectr.

Equity and Company Law
Hooton, J. R., B.A. Ox. and Syd. Challis Lectr.

Bankruptcy and Probate
McDonald, E. F., LL.B. Challis Lectr.

Divorce [Challis Lectr.
Mackenzie, W. K. S., D.S.O., B.A.

Procedure, Pleading, & Evidence
Rowland, N. de H., B.A., LL.B. Challis Lectr.

Interpretation
Evatt, H. V., M.A., LL.B. Challis Lectr.

Legal Ethics
..... Lectr.

Roman Law [Challis Lectr.
MacCallum, M. L., M.A., B.C.L. Ox.

Criminal Law [Lectr.
Treatt, V. H., B.A., B.C.L. Ox.

Conveyancing
Watts, P. R., B.A., LL.B. Reader.

Medicine (for Preventive M. and Anat., Chem., etc., v. *supra*)

Anæsthetics
Lidwill, M. C., M.D. Tutor.
Adams, H. C., L.R.C.P., M.R.C.S. Tutor.

Cancer Research
Love, W. H., B.Sc. Physicist

Diseases of Ear, Nose, Throat
Mansfield, W. C., M.B., Ch.M., F.R.C.S. Eng. Lectr.

Diseases of the Skin [Lectr.
Molesworth, E. H., M.B., Ch.M.

Ethics of Med. Pract. [Lectr.
Todd, R. H., B.A., M.D., Ch.B.

Gynæcology
Davies, R. L., O.B.E., M.B., Ch.M., F.R.C.S. Eng. Lectr.

Infectious Diseases [Hon. Tutor.
Millard, R. J., M.B., Ch.M.

Materia Med.
Macpherson, J., M.A., M.B., Ch.M., B.Sc. Lectr.
Stroud, S. H., F.I.C. Lectr. in Pharmacy.
3 Demrs. in Pharmacy.

Medical Jurispr. [Lectr.
Todd, R. H., B.A., M.D., Ch.B.

Med., Principles, etc.
Mills, A. E., M.B., Ch.M. Prof.

Medicine, Clinical
Gillies, S., M.A., M.D. Lectr.
Blackburn, C. B., O.B.E., M.D., Ch.M. Lectr.
Gill, J. M., M.D., L.R.C.P., M.R.C.S. Lectr.
Fairfax, E. W., M.B., Ch.M.

Med. Tutors
McDonald, C. G., M.B., Ch.M.
Clayton, H. J., M.B., Ch.M.
Willcocks, G. C , M.B.
Evans, Wilfred, M.B., Ch.M.

Obstetrics [Prof.
Windeyer, J. C., M.B., Ch.M.
Craig, F. B., M.B., Ch.M. Tutor.
Furber, R. I., M.B., Ch.M. Tutor.
Gibson, A. J., M.B., Ch.M. Tutor.
Darcy, Constance E., M.B., Ch.M. Lectr.
Ludowici, E., M.B., Ch.M. Lectr.
Hipsley, P. L., M.B., Ch.M. Demr.
Ridler, H. A., M.B., Ch.M. Demr.
Farquharson, Alice M. Demr.

Ophthalmology
Waddy, R. G., M.B., Ch.M. Lectr.

Pathology
Welsh, D. A., M.A., B.Sc., M.D., F.R.C.P. Edin. Prof.
Inglis, W. K., M.D., Ch.M. Lectr. & Chief Demr.
Little, E. Marjory, M.B. Demr.
Edye, B. T. (v. Anat.) Demr.

Hon. Demrs. :
Walker, A. S., M.D., Ch.M.
Hughes, L. H., M.D., Ch.M.
Latham, O., M.B., Ch.M.
Munro, A. Watson, M.D.
Silverton, R. J., M.B., Ch.M.

Psychiatry
Macpherson, Sir J., K.B.E., C.B., M.D., F.R.C.P. Edin. Prof.

Surgery, Principles, etc.
Sandes, F. P., M.D., Ch.M., B.Sc. McCaughey Prof.

Surg., Clinical
Abbott, G. H., B.A., M.B., Ch.M. Lectr.
Craig, R. G., M.B., Ch.M. Lectr.
Dansey, R. J. St. J., M.B., Ch.M. Lectr.
Corlette, C. E., M.D., Ch.M. Lectr.
Farranridge, T., M.B., Ch.M. Tutor.
Ramsay Sharp, W. A., M.B., Ch.M. Tutor.

Dental Science

Reading, R. F., M.R C.S., L.R.C.P., L.D.S. Eng. McCaughey Prof.
Scholes, L. R., B.D.S. Lectr.
Marshall, F., D.D.S. (Mech. D.) Lectr.
Gates, E. C., D.D.S. (Clin. D.) Lectr.
Ash, P. A., D.D.S. (Surg. D.) Lectr.
Smith, Donald (Surg. D.) Lectr.
Charlton, P. C., L.D.S., D.M.D. (Dental Mat. Med.) Lectr.
2 Demrs.

University Extension

Mackay, I. G., C.M.G., D.S.O., B.A. Secy. to the Board.
Portus, G. V. (v. *supra*, Econ.) Dir. of Tutorial Classes.
Bland, F. A. (v. *supra*, Econ.) Asst. Director.
1 full-time tutor and 48 tutorial class lectrs.

COLLEGES WITHIN THE UNIVERSITY

ST. PAUL'S COLLEGE (Anglican). Warden—Rev. A. H. Garnsey, M.A., Lectr. in *Div.* and *Classics*. Sub-Warden—V. H. Treatt, B.A. Syd., B.A., B.C.L. Ox. Lectr. in *Med.*—H. J. Clayton, M.B., Ch.M. *Arts Subjects*—R. W. G. Mackay, B.A. *Science*—F. H. H. Wilson, B.Sc. *Law*—W. B. Simpson, LL.B.

ST. JOHN'S COLLEGE (R.C.). Rector—Very Rev. M. J. O'Reilly, D.D., Lectr. in *Christian Apologetics*, *English* and *Mod. Langs.* Vice-Rector—Rev. G. A. Templeton, Ch.M. Other Lectrs.: *Med.*—O. A. Diethelm, M.B., Ch.M. *Surg.*—H. M. Moran, M.B., Ch.M. *Scholastic Philos.*—Rev. P. Dalton. *Law*—T. P. Flattery, M.A., LL.B.

ST. ANDREW'S COLLEGE (Presb.). Principal—E. E. Anderson, M.A., D.D. Aberd. Vice-Principal—A. L. Campbell, M.B.E., B.A., B.E. Secretary—S. J. Carruthers. Hunter-Baillie Profs.: *Oriental and Polynesian Langs.*—E. E. Anderson, M.A., D.D. *Engl. Lang. and Lit.*—R. G. Macintyre, M.A., D.D. Lectrs.: *Law*—M. W. D. McIntyre, B.A., LL.B. *Med.* and *Surg.*—E. M. Fisher, M.B., Ch.M. *Pathology* and *Neurology*—M. Ross, M.B., Ch.M. *Science*—G. H. Clarke, B.Sc. (*Biol.*); F. H. Wilson, B.Sc. (*Phys. and Chem.*). *Religion*—The Principal. *Engl., Hist.*, and *Philos.*—F. L. Wood, B.A. *Engin.* and *Maths.*—L. S. C. Tippett.

WESLEY COLLEGE (Methodist). Master—Rev. L. E. Bennett, M.A. Melb., B.D. Lond. Tutors: *Philos.*—The Master; 5 Tutors in *Med. Physics*—E. Francis, B.A.

THE WOMEN'S COLLEGE (undenominational). Principal—Miss S. J. Williams, M.A. Melb. and Syd., Lectr. in *Classics*. Vice-Principal—Miss M. K. Brown, Lectr. in *Hist.* and Librarian. Tutors: Miss A. MacLellan, B.A. (*French and German*); Miss P. Nicol, B.Sc. (*Physics*); Miss Abramovitch, B.A., M.B., Ch.M. (*Med.*); Miss Wait, B.A. (*Philosophy*).

GENERAL INFORMATION (v. also p. 419)

Founded by Act of the N.S.W. Legislature in 1850, the Univ. was granted a Royal Charter in 1858. Its development has been largely due to private benefactions, notably those of J. H. Challis—£250,000—in 1880, T. Fisher—£30,000 for Library—in 1885, and P. N. Russell—£100,000 for School of Engineering, etc.—in 1896 and 1904. Under the will of Sir S. McCaughey it receives £15,000 p.a. In 1912 the Statutory endowment was raised from £10,000 to £20,000 with provision for further automatic increases, and at the same time the constitution of the governing body, called the Senate, was altered so as to include 6 nominees of the Govr. and Parliament (one-fourth of the whole number). In 1917–18 the Statutory endowment was further increased to £32,000, including £2000 for the new School of Archit. Private Foundations balances amounted in 1924 to £648,900, Govt. grants to £75,153, fees £41,631, expenditure on salaries £128,269, including £12,089 from the Challis Fund, and £13,898 from the McCaughey Fund. In 1919 the State provided £50,000 a year for 6 years for additional buildings. The faculties were in that year increased from 4 to 10. The grounds, which include the sites of the Colleges grouped round an oval, cover 140 acres.

Provision was made by Act of Parliament soon after the foundation of the Univ. for endowing such Colleges as might be established within it, to the extent of £20,000 in aid of building and £500 p.a. towards the Principal's salary.

The LIBRARY, 150,000 vols., receives about 1800 serial publications. MUSEUMS: Nicholson collection of Egyp., Greek, Roman, and Medieval Antiq. (4000 specimens); Macleay Nat. Hist.; Anat., Geol., and Zool. LABORATORIES: Schools of Med., Engin., and Archit. (atelier), Bot., Chem. (including Metall. and Research), Geol. (with rock analysis Research), Phys., Zool. The ROYAL PRINCE ALFRED HOSPL., erected on the Univ. grounds as a general hospl. and school, has 518 beds. Gladesville mental hospl. recognized by Camb. for clinical work for Dip. Psych. Med.

FACULTIES. Arts, Law, Med., Science, Engin., Dent., Vet. Sc., Agric., Econ., Archit.

DEGREE COURSES: 3 yrs.—B.A., B.Sc.; 4 yrs.—Honours B.Sc., B.Sc. in

Agric. (3 after Agric. Coll. course), B.Ec., LL.B. (after completing 1st yr. in Arts or passing Law Entrance Examn.), B.D.S., B.V.Sc., B.E. (in Civ., Mining and Metall., or Mech. and Elec.); 5 yrs.—B.Arch.; 6 yrs.—M.B., B.S.; 2 yrs.' advanced study or research (after full 3 yrs.' course at another Univ.)—B.A. or B.Sc. The LL.B. qualifies conditionally for admission to the bar. Law students usually take the B.A. first, selecting Law subjects in 3rd yr., and complete combined course in 5 or 6 yrs., thereby gaining concessions in regard to periods of studentship and service as articled clerk. HIGHER DEGREES. Obtainable by bachelors of 2 yrs.' standing—M.A., M.Ec., LL.D., M.D., M.S., M.Sc.; 3 yrs.—D.Sc., M.E.; 5 yrs.—D.Sc. Eng. DIPLOMAS. Educn. (for graduates in Arts or Sc.), 1 yr.'s course; Com., 3 yrs.; D.P.H.; D.T.M.; Psychiatry. Candidates for the Diploma of the Pharmacy Board have to attend courses in the Univ.

RECOGNITION OF STUDIES ELSEWHERE. A considerable portion (in Med. 3 yrs.) of the curriculum for a Degree must be taken in Sydney. A special grant of £100 was made by Govt. in 1925 for provision of lectures at country centres. Holders of the Diploma of the *Hawkesbury Agricultural College* or any college of similar standing who have passed the Intermediate Certificate Examn. in matriculation subjects may be admitted as matriculated students in Vet. Sc. or Agriculture.

SCHOLARSHIPS, ETC., FOR GRADUATES. Junior Demrs. are appointed annually in each Scientific Dept. with the obligation to carry out research under the direction of the Prof.; 6 post-grad. Scholarships of £150 each and 2 of £300 are awarded annually for scientific study and research in the Univ.; 4 Macleay Fellowships of £400 p.a. each are tenable by B.Sc.'s; 4 others of £300 p.a., and 2 Scholps. of £250 p.a., tenable for 2 yrs., are awarded annually for further study and research at Syd. or abroad.

RESIDENCE. The four denominational Colls. (v. *supra*) provide accommodation for 180 students; the Women's Coll. for 28.

UNIVERSITY EXTENSION LECTURES are given in courses of from 3 upwards in Sydney and numerous local centres. *Tutorial Classes* are provided, as prescribed by the Act of 1912, under the superintendence of a Joint Committee of the Univ. and Workers' Educl. Assocn. of N.S.W. In 1924 the Govt. grant for this purpose was £6370; 58 classes were at work, including 1470 effective students.

ADULT MATRICULATION. Persons of distinct educational merit who have attained the age of 25 yrs. may be admitted as matriculated students in the Faculties of Arts, Science, and Econ.

PUBLICATIONS. *Calendar* pubd. in June, 3s. 6d., with annual report and list of publicns. of Univ. Staff; Reprints of Scientific Papers by members of the Staff; *Hermes*, an undergrads.' mag., 5s. p.a. (3 issues); Women's College Mag.; The *Union Recorder* (weekly during Term).

THE YEAR 1924–25

BENEFACTIONS. Sir T. Anderson Stuart Memorial Fund, £1404 for Medical Research Fellowship; Dr. W. F. Burfitt, £1000 for scholarship in Science; Miss E. S. Hebden, £5000 for research in Medicine; Estate of late W. O. Watt, £35,288; anonymous, £250 for W. W. Perry Lectureship in Law.

NEW DEPARTMENTS AND POSTS. Chair of Obstetrics established under special annual Govt. grant of £2500; Assoc. Prof. of Technology and Metal-

lurgy, Asst. Prof. of Botany, Lectrs. (2) and Demrs. (3) in Obstetrics, Secy. of Faculties, Asst. Lectrs. (4) for country centres.

NEW DEVELOPMENTS. A special Govt. grant of £1000 for lectures at country centres. (Lectures in 4 qualifying courses in the 1st year of Arts, viz., Latin, English, Mathematics, and Philosophy, are delivered at Armidale, Bathurst, and Goulburn.) A Licence in Vet. Medicine and Surgery, the course being open to students who pass a lower standard matriculation examn. or have gained the Hawkesbury Agr. College Diploma with Honours. The Univ. Amendment Act, Dec. 1924, altered the title of Vice-Chancellor to Deputy Chancellor and created the position of permanent Vice-Chancellor in which was merged the office of Warden.

RETIREMENTS AND RESIGNATIONS. R. T. Baker; Fourness Barrington; C. J. Brennan; J. C. Cosh; Sir T. W. E. David; T. B. Hannan; W. R. Hebblewhite; P. D. Jones; H. J. Marks; Fanny M. Matthews; B. V. Stacy; B. W. Turner; C. J. M. Walters; W. H. Warren. DEATHS: G. P. Carter; T. F. Furber; Emeritus Professor W. A. Haswell; H. E. Barff.

STUDENTS. Preparing for first degree, 2014, including 522 women; taking courses not leading to a degree, 377 (women—46); resident in colleges or hostels, 290 (w.—57); graduate students, 107 (w.—57); occasional, 113 (w.—42).

DEGREES CONFERRED. B.A., 127 (women—61); LL.B., 52 (w.—2); M.B., 166 (w.—15); B.Sc., 43 (w.—19); B.E., 56; B.D.S., 18; B.V.Sc., 3; B.Sc.Agr., 4; B.Ec., 16 (w.—2); B.Arch., 9 (w.—4); Ch.M. taken with M.B., 151 (w.—11); M.A., 10 (w.—3); LL.D., 1; M.D., 1; D.Sc., 1; M.Sc., 2 (w.—1); D.Sc.Eng., 1.

TRAVELLING SCHOLARSHIPS. E. T. Salmon, B.A. (Woolley); I. S. Turner, M.Sc. (Barker); V. M. Trikojus, B.Sc. (Exhn. 1851); A. R. Callaghan, B.Sc.Ag. (Rhodes); S. C. Jenkins, B.A. (French Govt.). Research Fellowships: A. C. McKay, B.V.Sc.; A. B. Catley, B.Sc.Agr.

UNIVERSITY OF TASMANIA, HOBART

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Hon. Sir NEIL ELLIOTT LEWIS, K.C.M.G., M.A., B.C.L.

VICE-CHANCELLOR—W. J. T. STOPS, LL.B.

REGISTRAR—Lt.-Col. L. R. THOMAS, D.S.O., Barr.-at-Law.

LIBRARIAN—E. MORRIS MILLER, M.A., Litt.D.

PROFESSORS, LECTURERS, ETC.

Accountancy and Auditing
Hewer, A. R., A.I.C.A. Lectr.

Biology [Ralston Prof.
Flynn, T. T., D.Sc. Syd.

Botany
Rodway, L., C.M.G., F.L.S.

Chemistry
MacLeod, P. J., B.A. N.Z. Lectr.
Kurth, E. E.
Lectr. (Applied Chem.).

Classics and English Lit.
Williams, W. H., M.A. Camb. Prof.
Dunbabin, R. L., M.A. Ox.
Prof. (Classics).

Economics
Brigden, J. B., M.A. Ox. Prof.
..... Lectr.
Judd, W., M.A. Melb. (Hist. and E.) Lectr.

Education
Johnston, J. A., M.A. N.Z. Lectr.

Engineering
Burn, A., B.E. Syd., M.Sc. Prof.
Tuck, H. P., B.Sc., B.E. Adel.
Lectr. (Elec. E.).
Schneider, W. H., B.E. Adel.
Lectr. (Mech. E.).

Dudley, C. C.
Lectr. (Drawing and Design).

History, v. also Econ.
King, C. S., M.A. Ox., B.A. Lectr.

Law
McDougall, D. G., M.A., B.C.L. Ox., M.A., LL.D. Melb. Prof.
Griffiths, P. L., M.A. Melb., LL.B. Lectr.

Mathematics
McAulay, A., B.A. Camb., M A. Melb. Prof.
Lucas, A. H. S., M A. Ox. and Melb., B.Sc. Lond.
Acting Prof.
Erwin, H. D., B.A. (R.U.I.) Lectr.

Modern Languages
Malthus, C., M.A. N.Z. Lectr.

Psychology and Philosophy
Miller, E. Morris, M.A., Litt.D. Melb. Assoc. Prof.

Physics
McAulay, A. L., B.A. Camb., Ph.D. Manc., B.Sc. Lectr.

Tutorial Class Lectrs.

Prof. Brigden (Director), the Lectrs. in Economics, and 4 others.

AFFILIATED SCHOOLS

ZEEHAN SCHOOL OF MINES AND METALLURGY.

MT. LYELL SCHOOL OF MINES AND INDUSTRIES.

HOBART TECHNICAL COLLEGE.

LAUNCESTON TECHNICAL COLLEGE.

GENERAL INFORMATION (v. also p. 419)

Founded in 1890 under an Act of the Tasmanian Legislature, the Univ. was, in 1915, granted a Royal Charter. To the original Faculties—Arts, Science, and Law—Commerce was added in 1919 and Engineering in 1922. The annual Govt. grant is £11,000.

ADMISSION OF PERSONS OF MATURE AGE. Persons not below 25 yrs. of age who satisfy Board of Studies that they possess sufficient qualifications for the courses they propose to pursue may be exempted from the ordinary requirements for matricn.

LIBRARY, 20,000 vols. LABORATORIES: Chem., Phys., Biol.; Testing plant in Engin. Dept. Facilities for investigation in Elec. Engin. OBSERVATORY, 8″ reflector telescope.

DEGREE COURSES: 3 yrs., B.A., B.Sc., LL.B. (after 1 yr. of Arts course); 4 yrs., B.Com., B.Eng. HIGHER DEGREES. Open to Bachelors of 2 yrs.' standing, M.A., M.Sc., LL.M., M.Com.; 3 yrs.' D.Sc.; to Masters of 3 yrs.' standing, LL.D. DIPLOMAS of the Affiliated Schools: Metal Mining; Metall., Chem., and Assaying. CERTIFICATE of Commerce, 2 yrs.' course.

UNIVERSITY EXTENSION. Tutorial classes, annual grant, £1780.

PUBLIC EXAMINATIONS. Intermediate and Leaving; Music (held in conjunction with other Australian Univs.).

PUBLICATIONS. *Calendar* (Aug.), 2s.; *Pub. Examn. Manuals*, 2s.; *Degree Examn. Papers*, 1s. Univ. news appears in Hobart *Mercury* and *World*. Students' Magazine, *Platypus*.

THE YEAR 1924–25

BENEFACTIONS. Russell Allport Memorial and Thomas Normoyle Prizes in Engineering, value £10 each p.a.; Returned Sailors' and Soldiers' Imperial League Scholarship, £30 p.a. with lodging allowance of £50; prize of £5 : 5s. in Commerce given by the Federal Institute of Accountants; 5 prizes of £2 : 2s. each given by the Editor of the *Illustrated Tasmanian Mail*; Government Grant, £11,000 and, for W.E.A. and Tutorial Classes, £1780.

The NEW ENGINEERING BUILDINGS were opened for Electrical Engineering and Physics. The Univ. Roll of Honour Screen was unveiled in the Univ. Library.

RESIGNATIONS. The Hon. Tetley Gant, who had been Chancellor of the Univ. for 10 years; Prof. D. B. Copland, appointment as Prof. of Economics in the Univ. of Melbourne; V. C. Smith.

The Tasmanian Univ. Act was amended to allow women graduates a seat and a vote on the Senate.

DEGREES CONFERRED. B.A., 10, including 2 women; B.Sc., 5 (w.—1); LL.B., 1; LL.M., 1; B.Com., 2 (w.—1).

STUDENTS. Preparing for first degrees in Arts, 93; Sc., 30; Law, 20; Engineering, 34; Commerce, 53; Graduate students, 6.

UNIVERSITY EXTENSION. Tutorial Classes in 1924 in Modern History, Botany, Industrial Peace, Public Finance, Literature, Economics, Australia, and the Pacific.

UNIVERSITY OF WESTERN AUSTRALIA, PERTH

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Hon. A. J. H. SAW, O.B.E., M.L.C., M.A., M.D.

PRO-CHANCELLOR—CECIL ANDREWS, M.A.

VICE-CHANCELLOR—Prof. H. E. WHITFELD, B.A., B.E., M.I.M.M.

WARDEN OF CONVOCATION—ROBERTA H. M. JULL, M.B., C.M.

CLERK OF SENATE—S. H. FLETCHER.

LIBRARIAN—A. S. BROWN.

PROFESSORS AND LECTURERS, ETC.

Agriculture

Paterson, J. W., B.Sc. Edin., Ph.D. Leip. Prof.
Carne, W. M. Lectr.
Hampshire, P. G. Lectr.
Wickens, G. W. Lectr.

Biology

Nicholls, G. E., D.Sc. Lond., A.R.C.Sc. Prof.
Milner, Dorothy F., B.Sc. Asst.
Reed, Eileen R. L., B.Sc. Adel. Asst.
Newton, E. A. R. Demr.

Chemistry

Wilsmore, N. T. M., D.Sc. Melb., F.I.C. Prof.
Tattersall, G., M.Sc. Manc., F.I.C. Assoc. Prof.
Babington, P. Demr.

Classics

Wood, G., M.A. Aberd. Assoc. Prof.
Laidlaw, W. A., M.A. Lectr.

Education

Rooney, W. J., B.A. Syd. Lectr.

English

Murdoch, W. L. F., M.A. Melb. [Prof.
Thompson, H. S., M.A. Lectr.

French and German

Irving, G. T., M.A. Edin. Lectr.
D'Herbois, R. C. Lectr.
Graebner, R. M. Lectr.

Geology

Clarke, E. de C., M.A. N.Z. Lectr.
Hosking, L. F. V. Demr.

History and Economics

Shann, E. O. G., M.A. Melb. Prof.
Alexander, F., B.A. Melb. and Ox. Asst.

Mathematics and Physics

Ross, A. D., M.A., D.Sc. Glas., F.R.S.E., F.R.A.S., F.Inst.P. Prof.
Thompson, R. D., M.A. N.Z., M.Sc., F.R.A.S., A.Inst. P. Lectr.
Moir, Margt. B., M.A., D.Sc. Glas. Lectr.
Orton, A. A., B.A., M.Sc. Asst.
Everson, D. W. Demr.

Mining and Engineering

Whitfeld, H. E., B.A., B.E. Syd., M.I.M.M. Prof.
Fraenkel, P. H., B.E.E. Melb., A.M.I.E.E. Lectr.
McLagan, W. Lectr.
Wright, A. R. L., L.R.I.B.A. Lectr.
Haynes, H. T., M.Inst.C.E., M.R.S.I. Lectr.
Anketell, R. J. Lectr.
Townsend, W. G., A.M.I.E.A. Demr.

Music		*Surveying*	
Leckie, A. J., Mus.Bac. F.R.C.O.	Adel., Lectr.	Nunn, G. M., L.S.	Lectr.
Philosophy		*Veterinary Science*	
Fox, A. C., M.A. Syd.	Lectr.	Le Soeuf, E. A., B.V.Sc. F.Z.S.	Melb., Lectr.
Laidlaw, W. A., M.A.	Lectr.		

AFFILIATED SCHOOLS

PERTH TECHNICAL SCHOOL, and SCHOOL OF MINES, KALGOORLIE.

GENERAL INFORMATION (v. also p. 419)

Established by Act of the State Legislature in 1911, the Univ. opened its first session in 1913. It has a large endowment of land granted by Govt., including a site of 100 acres for buildings, and receives an annual grant of £18,500. The administration is vested in a Senate of 18 persons, of whom 6 are nominated by Govt.

LABORATORIES. Agric., Biol., Chem., Geol., Engin., Phys.

FACULTIES. Arts, Sc. (including Agric.), Engin.

DEGREE COURSES: 3 yrs.—B.A., B.Sc.; 4 yrs.—B.A. (Hons.) and B.Sc. (Hons.); 5 yrs.—B.E. (a sandwich system during last 3 yrs.). First year Med. course in Fac. of Sc.

EVENING CLASSES are held in the Arts Faculty only, but certain Science classes may be taken in the evenings at affiliated Colleges.

HIGHER DEGREES. M.A., M.Sc., M.E., D.Litt., D.Sc.

DIPLOMAS. Agric.

PUBLIC EXAMINATIONS. School Certifs. (Junr. and Leaving), Art Certif., and Music.

ADULT MATRICULATION. Persons who have attained the age of 25 yrs. may be admitted without examn. as matriculated students if the Faculty is satisfied that they possess sufficient educational qualifications.

PUBLICATIONS. *Calendar* (Dec.), 2s. 6d.; *Public Examn. Manuals*; *Black Swan* (Students' Magazine).

THE YEAR 1925

A CONFERENCE of W.A. Music Teachers was arranged by and held at the Univ., May 18-22, and a Conference of Teachers of Drawing, Sept. 1-2.

NEW POST. A part-time lectureship in Music for a course of lectures for teachers and advanced students.

EXTENSION LECTURES. Many have been given in the Metropolitan area and in country centres. Over 40, arranged in courses of from four to six lectures each, have been broadcasted. A short summer vacation course on Rural Household Science was held at the Univ., and largely attended by persons from the agricultural districts. Arrangements were made for Sir Ernest Rutherford to deliver a public lecture in Perth when on his return journey from New Zealand to England.

3 TRAVELLING SCHOLARSHIPS were awarded for studies in Europe.

An APPOINTMENTS COMMITTEE was formed.

INTERCHANGE OF STAFF. Miss E. R. L. Reed of the Dept. of Biology has interchanged for two sessions with Dr. J. G. Wright of the Dept. of Botany of the Univ. of Toronto. Miss M. G. C. Fordham of the Dept. of Zoology of the Univ. of Liverpool is spending a period in research in the Biology Dept.

DEATH. Assoc. Prof. A. Tomlinson (Engineering).

STUDENTS preparing for a first degree: full-time, 272 (including women—110); part-time, 98 (women—55); graduate students, 22 (w.—10); attending occasional courses, 67 (w.—2). DEGREES OBTAINED: B.A., 38; M.A., 2; B.Sc., 12; M.Sc., 1; B.E., 4; M.B. (*ad eundem*), 1.

UNIVERSITY OF NEW ZEALAND

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—J. MACMILLAN BROWN, M.A., LL.D. Glas.

VICE-CHANCELLOR—J. RANKINE BROWN, M.A. St. And. and Ox.

CHAIRMAN, BOARD OF STUDIES—Prof. H. W. SEGAR, M.A. Camb., Auckland.

REGISTRAR—E. T. NORRIS, M.A., Wellington.

AGENT IN ENGLAND—J. W. JOYNT, M.A. Dub., 88 Gower Street, London, W.C.1.

AFFILIATED INSTITUTIONS

UNIVERSITY OF OTAGO, DUNEDIN; CANTERBURY COLLEGE, CHRISTCHURCH; AUCKLAND UNIVERSITY COLLEGE; VICTORIA UNIV. COLLEGE, WELLINGTON.

This University, an examining body, was founded in 1870. Its constitution, defined by the N.Z. Univ. Act 1908 as amended in 1912, 1914, and 1915, vests the Government of the Univ. in a Senate of 24 members (Fellows), assisted, as regards schemes of study, etc., by a Board of Studies representing the College Professorial Boards. Of the Fellows, 4 are nominated by the Governor, and 20 elected, 8 by the College Governing Bodies, 4 by their teaching staffs, and 8 by graduates. The Chancellor and Vice-Chancellor are elected by the Senate; the former (or, in his absence, the latter) presides at meetings of the Senate. There are no University buildings: the offices are at Wellington. An annual grant of £4000 is received from Govt.

MATRICULATION. Candidates must pass in 5 subjects, including English, Maths., and one language. A candidate who does not pass in Latin or Greek must pass in Physical or Natural or Home Science. Not more than one of these sciences can be taken; in the syllabus prominence is given to their practical aspect. The examn. is held in Dec. Special provision is made for exemption of persons not under 25 years of age and students from other Univs.

TERMS. A student presenting himself for a Univ. examn. for which the keeping of terms is required must have passed the College examn. in the subjects he offers at the corresponding stage. The terms are: Autumn (March-May), Winter (June-Aug.), and Spring (Sept.-Oct. or Nov.). The subjects in which terms must be kept are: all those of the B.A., B.Sc., B.Sc. in H.Sc., M.B., Ch.B., B.D.S., and LL.B. degree courses; of the 1st and 2nd Divisions of the B.Com. course; of the Engineering Entrance examn. A student whose name is on the books of an affiliated College, and who has passed its annual examn., is deemed to have kept the terms of the year if he has attended the prescribed courses, *or*, being resident more than 10 miles from College or engaged in acquiring a profession or trade or earning a livelihood, has been thereby prevented from attending, *or* objects on grounds of religious scruples to such attendance.

DEGREE COURSES: 3 yrs.—B.A., B.Sc., B.Mus., B.Agr. (including practical

work on farm), B.Sc. in Forestry; 4 yrs.—B.Sc. in Home Science, B.Sc. in Archit. (including 18 mos.' practical work), LL.B., B.E. (Mech., Elec., Civ., Mining, Metall., including from 9 to 18 mos. in shops, mines, or surveying), B.Com., B.Vet.Sc.; 5 yrs.—B.D.S.; 6 yrs.—M.B., Ch.B. The B.A. and B.Sc. courses are on a system of Pass and Advanced subjects. Each now consists of (*a*) 4 Pass and 2 Advanced or (*b*) 5 Pass and 1 Advanced or (*c*) 6 Pass subjects. English Lang. and Lit., Latin, Greek, French, and German are separate subjects for honours.

HIGHER DEGREES. M.A., M.Sc., LL.M., M.Com., M.S.; Ph.D., Litt.D., D.Sc., LL.D., M.D., D.D.S., D.Mus. For the Mastership examn. and thesis are required. The Doctorate may be taken by a Bachelor of 5 yrs.' (in Med. 3 yrs.') standing who offers suitable original work and, if in Arts, Sc., or Law, has already obtained the Mastership or equivalent degree, or, if in Med. or Music, passes a prescribed examn.

DIPLOMAS. D.P.H. (9 mos.' course); Journalism, Education, Social Science, Banking, Insurance. *Certificate* of Proficiency in Dental Surgery; Shipping Officers' *Certificate*.

PROFESSIONAL AND TECHNICAL SCHOOLS. *Law* at all the Affiliated Colls., the chief school being that of Victoria; *Med.* and *Dent.* and *Home Science* at Otago; *Archit. and Engin.* (Civ., Elec., and Mech.) at Auckland and Canterbury; *Mining* and *Civ., Elec.*, and *Metall. Engin.* at Otago; *Commerce* and *Music* mainly at Auckland and Canterbury; *Agric.* at Auckland and Wellington and a recognized (but not affiliated) Coll. at Lincoln; *Forestry* at Auckland and Canterbury.

"AD EUNDEM" RECOGNITION. Courses completed, or partially completed, at any British chartered or other approved Univ. are accepted *ad eundem*.

SCHOLARSHIPS FOR GRADUATES. In almost every subject of the B.A. or B.Sc. syllabus and in Law—£70; Travelling Scholps. in Arts, Science, French, Law—£200 (2 yrs.) each, in Engin. and Med.—£150 each. A National Research Scholarship (£100) is offered annually for each of the 4 Colleges for research in Science or Economics. Gold medals are granted for scientific and humanistic research.

Two first-class return passages between Australia and England are offered yearly by the Orient Co. and P. & O. Co. for grads. of the Univ. proceeding to Europe to continue their studies. The Union S S. Co. supplements this by a similar concession between N.Z. and Australia. One passage between N.Z. and England is offered by the N.Z. Shipping Co., one by the Shaw, Savill & Albion Co., and one by the Commonwealth and Dominion Line.

Of 3858 students on the books of affiliated colleges in 1923, 1511 (32 p.c. of men and 57 p.c. of women) were receiving *free education*.

ADULT EDUCATION. Classes are conducted under the control of the Council of each College through an Executive Committee on which the Council and the W.E.A. are represented. The Government granted £4165, of which £300 was allotted to each College for W.E.A. and extension classes.

PUBLICATIONS. *Calendar* (March), 2s. 6d.; *Minutes of Prodgs. of Senate*, free; *Examn. Papers*, 6d. or 1s. a set; *Reports of Examrs.* (in England and N.Z.), free.

THE YEAR 1924–25. *Degrees conferred:* Litt.D., 1; D.Sc., 1; M.D., 5; D.D.S., 1; Ph.D., 1; M.A., 68; M.Sc., 10; LL.M., 12; M.Com., 4; B.A., 141; B.Sc., 37; LL.B., 38; B.Com., 5; B.E., 13; B.Agr., 4; B.H.Sc., 5; Mus.B., 1; M.B., Ch.B., 61; B.D.S., 7.

THE ROYAL COMMISSION, 1925

The Royal Commission which has made investigations into the question of University education in New Zealand in its Report recommends drastic changes, including the establishment of a reformed Federal system with greater autonomy for constituent colleges. The Commission states that the New Zealand University offers unrivalled facilities for the taking of degrees, but that it is less successful in the provision of a University education. The Report condemns the dominant place given to examinations, and urges the encouragement of whole-time study. Other recommendations include:

(1) The substitution of a School Leaving Certificate Examination for the Matriculation Examination.

(2) A definite policy for the establishment of special schools and for preventing duplication; and in particular the establishment in the North Island of a strong University School of Agriculture.

(3) Provision for the training of Secondary teachers within the University.

(4) A higher standard of entrance for the legal profession.

(5) Bursaries for selected students undertaking professional courses at distant University centres.

(6) The encouragement of Research.

(7) Promotion of corporate life among the students by means of a Students' Representative Council and of College Hostels.

(8) Development of extra-mural work.

(9) Establishment of Degrees in Theology.

The Minister of Education has approved the main recommendations.

The Royal Commission, which was appointed early in the year, had two members; Sir Harry Reichel, Principal of the University College of North Wales, and Mr. Frank Tate, Director of Education in the State of Victoria.

H. R. R.

UNIVERSITY OF OTAGO, DUNEDIN

VISITOR—H.E. THE GOVERNOR-GENERAL.
CHANCELLOR—T. K. SIDEY, B.A., LL B , M.P.
VICE-CHANCELLOR—W. J. MORRELL, M.A., Oxford.
REGISTRAR—H. CHAPMAN, B.A.

PROFESSORS, LECTURERS, ETC.

Accountancy
Reid, G. W., B.Com. Lectr.
3 Tutors.

Accountancy Law [Lectr.
Paterson, J. M., M.A., LL.B.

Anatomy
Gowland, W. P., M.D., B.S. Lond., F.R.C.S. Eng. Prof.
Cairney, J., M.B., Ch.B. Lectr.
Denny-Brown, D. E., M.B., Ch.B. Asst. Lectr.

Biology
Benham, W. B., M.A. Ox., D.Sc. Lond., F.R.S. Prof.
Fyfe, Marion L., B.Sc. Asst.

Botany
Holloway, J. E., D.Sc. Lectr.

Chemistry
Inglis, J. K. H., M.A., B.Sc., D.Sc. Edin., F.I.C. Prof.
Carter, C. L., M.Sc., A.I.C. Lectr.

Classics
Adams, T. D., M.A. Prof.
Turnbull, Mary I., M.A. Asst.

Dentistry
Pickerill, H. P., C.B.E., M.D., M.D.S., L.D.S. Eng. Prof.
Bell, R. C., D.D.S. Prof. (Clin. D.).
Siedeberg, Emily H., B.Sc., M.D., Ch.B. (Anæsthetics) Lectr.

Economics
Fisher, Allan G. B., Ph.D. Lond., B.A. Prof.

Education [Prof.
Lawson, R., M.A., Litt.D. Melb.

English Lang. and Lit.
Ramsay, H., M.A. St. And. Prof.
Clement, Bertha, M.A. Asst.

Ethnology
Skinner, H. D., Dip.Anth.Camb., B.A. Lectr.

Geology and Mineralogy
Benson, W. N., B.A. Camb., D.Sc. Syd., F.G.S. Prof.
Sutcliff, A. R., M.Sc. Asst.

Hebrew
Cumming, J., M.A. Edin., B.D. Lond., D.D. Melb. Lectr.

History [Prof.
Elder, J. R., M.A., D.Litt. Aberd.

History, Constitutional
Lang, J., M.A., LL.B. Lectr.

Home Science
Strong, Ann G., B.Sc. Columbia Prof. (Domestic Arts).
Storms, Lillian B., Ph.D. Columbia Lectr.
McGill, Gladys, B.S. Columbia Lectr.
Gloy, Olga H. M. Asst.
Bowbyes, A. M., Dip.H.Sc. Asst.
Finlayson, Anna Teacher

Law [Lectr.
Stephens, A. C., LL.B. (Contracts)
Neill, A. G. (Crim. Law) Lectr.
Adams, H. S., M.A., LL.B. (Evidence) Lectr.
Hay, W. G., LL.M. (Jurispr.) ,,
Cook, H. L., LL.B. (Property) ,,

Adams, F. B., B.A., LL.M. (Property) Lectr.
Barrowclough, H. E., LL.B. (Proc.) Lectr.
Callan, J. B., B.A., LL.B. (Torts) Lectr.

Mathematics, Pure and Applied
Bell, R. J. T., M.A., D.Sc. Glas. Prof.
Bell, Christina S., B.A. Asst.

Metallurgy and Assaying
Waters, D. B., A.O.S.M. Prof.

Mining
Park, J., M.A.I.M.E., M.I.M.M., F.G.S. Prof.

Modern Languages
Thompson, G. E., Litt.D. Prof.
Barron, Vida M., M.A. Asst.

Philosophy, Ment. and Moral
Dunlop, F. W., Ph.D. Jena, M.A. Prof.

Physics
Jack, R., M.A., D.Sc. Glas., Ph.D. Gött. Prof.
Hinton, J. W., M.Sc. Lectr.
Blackie, Agnes R., M.Sc. Asst.

Physiology
Malcolm, J., M.D. Edin. Prof.
Bell, Muriel E., M.B., Ch.B. Asst.
Whyte, Marion K. B., M.B., Ch.B. Lectr. to Home Sc. Students.

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics [Tutor.
Marshall, A. McP., M.B., Ch.B.

Bacteriology and Pub. Health
Hercus, C. E., D.S.O., O.B.E., M.D., B.D.S., D.P.H. Prof.
Cameron, Gladys C. M., M.Sc. Lectr.

Clin. Med. and Clin. Surg.
The Hon. Staff of the Dunedin Hospl. Lectrs.

Clin. Med. and Therap.
Fitchett, F. W. B., M.D., C.M. Edin. Prof.
Moore, S. A., B.A., M.D. Lectr.
Murray, C. S., M.B., Ch.B. Asst. Lectr.
Moody, A. S., M.B., Ch.B. Asst. Lectr.

Dis. of Children
Williams, E. H., M.B., Ch.B., M.R.C.S. Eng. Lectr.

Ear, Nose, and Throat
Hall, A. J., M.B., Ch.B., M.R.C.S. Eng., L.R.C.P. Lond. Lectr.

Gynæcology
North, C., M.B., Ch.B., M.R.C.S., L.R.C.P. Lond.
Tutor, Asst. Lectr. on Clin. G.

Medicine, Practice of
Carmalt-Jones, D. W., M.A., D.M. Ox., F.R.C.P. Lond. Prof.
Burns, C. R., M.B., Ch.B. Tutor.

Mental Diseases
Buchanan, H. M., M.B. Edin. Lectr.

Midwifery and Gynæc.
Riley, F. R., F.R.C.S. Eng., L.R.C.P. Lond. Lectr.
Ritchie, R. I., M.B., Ch.B., M.R.C.S. Eng., L.R.C.P. Lond. Tutor.

Ophthalmology
Ferguson, Sir Henry L., C.M.G., M.A., M.D. Dub., F.R.C.S.I., L.K.Q.C.P.I. Prof.

Asst. Lectrs. in Clin. O.:
Bathgate, Winifrede I., M.B., Ch.B.
Carswell, W. E., M.B., Ch.B., F.R.C.S.
Ross, K., M.A., M.B., C.M., D.P.H.
Cottrell, A. J., M.A., M.Sc., M.B., Ch.B.

Pathology
Drennan, A. M., M.B., Ch.B., F.R.C.P. Edin. Prof.
D'Ath, E. F., M.B., Ch.B. Asst.

Surgery

Bell, F. Gordon, M.B. Edin., F.R.C.S. Prof.
Newlands, W., M.B., Ch.B. Edin., F.R.C.S. Edin., M.A., B.Sc. Lectr. on Clin. S. and Asst. Lectr. on S.
O'Neill, E. J., C.M.G., D.S.O., M.B., Ch.B., M.R.C.S., L.R.C P. Lond. Lectr. on Clin. S.
Batchelor, F. S., F.R.C.S. Lectr. on Clin. S.
Lindon, E. H. L., M.B., Ch.B. Asst. Lectr. on Clin. S.
White, J. R., M.B., F.R.C.S. Eng. Tutor.
Fergus, T., M.B., F.R.C.S. Edin. Tutor.

Adult Education

11 Lecturers to W.E.A. Classes. Secy.—G. McCracken.

GENERAL INFORMATION (see also p. 453).

Founded by Ordinance of the Provincial Council in 1869 with power to grant degrees in Art, Medicine, and Law, the Univ. was opened in 1871. The Law School originated in 1873, the Medical in 1874, the School of Mines in 1878, the Dental School in 1907, the Accountancy Lectures and the Home Science Dept. in 1911. Between 1869 and 1877 the Univ. received grants of land exceeding 220,000 acres. It is entirely unconnected with any religious denomination except that the right of nomination to certain Chairs endowed by the Presbyterian Church rests with the Board of Church Property, subject to the approval of the Synod. It receives annual Government grants of approximately £10,000.

By an agreement effected in 1874 the Univ. agreed to hold in abeyance its power of granting degrees, and to become affiliated to the Univ. of N.Z.

CLASS FEES. In separate subjects—in Arts generally, £3 : 10s. for complete course; Science, £5 : 5s.; Law from £1 : 4s. to £3 : 10s.; Commerce, £1 : 4s. to £4 : 4s.; Medicine, all subjects aggregate (5 years), about £163, exclusive of Univ. fees, £45 : 3s., and Hospl. fees; Dentistry (4 years), £140, exclusive of Univ. fees, £24; Mining (4 years), £112; Home Science (4 years), £106.

LIBRARY, 16,000 vols.: also the Hocken collection of pamphlets and MSS. bearing on the History of N.Z. MUSEUMS: Biol., Ethnog., Geol., Anat., Path. LABORATORIES: Phys., Chem., Physiol., Bact., Path.

FACULTIES. Arts and Science, Medicine, Dentistry, Mining, Law, Commerce, and Home Science.

COURSES: for degrees in all the Faculties; D.P.H.; Certif. in Dent. Surg.; Associateship of Otago School of Mines (A.O.S.M.), 4 yrs.; Diploma of Mining, Metallurgy, Geology, or Land and Mine Surveyor, 2 yrs.; Associateship in Home Science, 4 or 3 yrs.

RESEARCH SCHOLARSHIPS, ETC. Edmond Industrial (Chemical) Research, £210, tenable 2 yrs.; Smeaton Research in Experimental Science, £60 for first year and £210 for second. The first is open to any person domiciled in N.Z., the second to graduates of Otago. Ross (Knox College), £150, 2 yrs.; Sir R. Stout (Economics), £50; and Anna P. Stout (Economics and History —women); all open to graduates of Otago. OTHER RESEARCH FUNDS: Roberts, Deans, and Barnett endowments, £1000 each for research in med. and surg.

HOSTELS. Presbyterian for men and women; Anglican for men; Home Science Students'. Cost of board and lodging, 23s. to 30s. a week.

UNIV. EXTENSION. Since 1916 classes in connexion with the W.E.A. in Dunedin and Invercargill have met with very great success.

THE YEAR 1924

BENEFACTIONS. Anonymous : £2000 for scholarship, £ 8000 for endowment of chair of Surgery ; Invercargill Savings Bank, £1000 for scholarship.

NEW BUILDINGS. Contracts let for new Medical School, to cost £75,000, and new Dental School, to cost with equipment £38,000.

RESIGNATIONS. Prof. L. E. Barnett, succeeded by Gordon Bell from Edinburgh.

NUMBER OF STUDENTS. Grand total, 1120 (including women—304). Graduate students, 51 (women—15). Undergraduates in Arts, 262 (w.—121) ; Medicine, 295 (w.—39) ; Dentistry, 112 (w.—13) ; Home Sc., 61 (w.) ; Law, 61 (w.—1) ; Commerce, 40 (w.—2) ; Science, 28 (w.—6) ; Mining, 16 ; Agric., 4. Non-matric., 121 (w.—33 ; commerce, 64). Exempted from lectures, 69 (w.—13).

DEGREES OBTAINED (1923). B.A., 40 (women—12) ; M.A., 16 (w.—2) ; B.Sc., 16 (w.—5) ; M.Sc., 7 ; LL.B., 3 ; M.B., 66 (w.—10) ; M.D., 1 ; B.D.S., 10 (w.—1) ; B.Com., 1 ; B.Agr., 1.

UNIV. EXTENSION. Tutorial classes, average attendance, 626.

CANTERBURY COLLEGE, CHRISTCHURCH

VISITOR—THE MINISTER OF EDUCATION.

CHAIRMAN OF BOARD OF GOVERNORS—H. D. ACLAND, B.A.

RECTOR—PROF. C. CHILTON, M.A., D.Sc., etc.

REGISTRAR—L. A. STRINGER.

PROFESSORS, LECTURERS, ETC.

Accounting, etc.

Morrison, J., F.I.A.N.Z. Lectr.
Smith, W. A., A.I.A.N.Z. Asst. Lectr.

Biology

Chilton, C., M.B., C.M. Edin., Hon. LL.D. Aberd., M.A., D.Sc., F.L.S. Prof.
Herriott, Eliz. M., M.A. Asst. Lectr.
Murray, Flora B., M.A. Asst. Lectr.

Chemistry

Denham, H. G., M.A., M.Sc., D.Sc. Liverpool, Ph.D. Heidelberg Prof.
Packer, J., M.Sc. Asst. Lectr.

Classics [Prof.

Stewart, H., C.M.G., M.A. Camb.
Broadhead, H. D., Litt.D. N.Z., B.A. Camb. and N.Z. Asst. Lectr.

Economics

Condliffe, J. B., M.A. Prof.
Tocker, A. H., M.A. Asst. Lectr.

Education, v. also Philos.

Shelley, J., M.A. Camb. (Dean Fac. Soc. Sc.) Prof.
Purchase, J. E., M.A. Lectr.

Engineering

Bamford, P. G., B.E. Demr.
Campbell, R. A., B.Sc. (Eng.), A.M.I.C.E. Prof. (Civ. E.).
Morrison, A. F. Lectr. & Demr.
Powell, P. H., M.Sc. Manc., M.Eng. Liv., M.I.E.E. Prof. (Elec. E.) (Dean Fac. Eng.).
Robinson, W. F., F.R.G.S. (Surveying, etc.) Lectr.
Steele, S., B.Sc.Eng. Prof. (Mech. E.).
Calvert, G. G., A.M.I.C.E. Demr. (Civ. E.).
Pollard, T. R. Demr. (El. E.).
Grundy, R. H., Ph.D., B.Eng. Liverpool Demr

English

Wall, A., M.A. Lond., B.A. Camb. (Dean Fac. Arts) Prof.
Cane, T. W., M.A. Asst. Lectr.

Forestry and Botany

Foweraker, C. E., M.A. Lectr.

French and German

Blunt, T. G. R., M.A. Ox. Prof.
White, J. F. D., B.A., B.Sc. N.Z. (French) Asst. Lectr.

Geology and Geography [Prof.

Speight, R., M.A., M.Sc., F.G.S.

History

Hight, J., M.A., Litt.D. (Dean Fac. Law and Com.) Prof.
Candy, Alice, M.A. Asst. Lectr.

Journalism [Asst. Lectr.
Henderson, A. G., B.A.

Law
Rowe, T. W., M.A., LL.B. Lectr.
Cuthbert, R. A., B.A., LL.B. (Indust. and Comml. L.) Asst. Lectr.
Hanna, H. H., LL.B. Asst. Lectr.
Taylor, A. S., B.A., LL.M. Asst. Lectr. (Property, etc.).
Gresson, K. M. Asst. Lectr. (Property, etc.).

Mathematics and Nat. Philos.
Weatherburn, C. E., M.A. Camb. and Melb., D.Sc. Syd. Prof.
Darwin, L. J., M.A. Adel. Asst. Lectr.

Music [Lectr.
Bradshaw, J. C., Mus.D. Manc., F.R.C.O., L.R.A.M., A.R.C.M.

Philosophy, Mental and Moral
Salmond, C. F., M.A. Prof.
Beeby, C. E., M.A. Asst. in Educn. and in P.

Physics
Farr, C. C., D.Sc. Adel. (Dean Fac. Sc.) Prof.
Macleod, D. B., M.A., D.Sc. Demr.

Adult Education

Of the Tutors for W.E.A. Classes 4 are on staff of College.

GENERAL INFORMATION (see also p. 453).

Created by Provincial Ordinance, 1873, and affiliated to the Univ. of N.Z., 1874. Present value of Govt. endowments—£597,005, including £272,572 for the High Schools, School of Art, Museum, and Public Library controlled by the Board of Govrs. Annual Govt. subsidies and grants (1924), £37,000, including £12,264 (College proper, £4324) for *Engineering*, the National School of Engin. in N.Z. The *Rector* is the academic head of the College and the permanent Chairman of the Professorial Board. LABORATORIES. Biol., Chem., Engin., Phys.

DEGREE COURSES in Arts, Science, Mus., Com., and Engin., and Certif. or Diploma courses in Engin. (3 yrs.), Com. (2 yrs.), Journalism, Education, and Social Science. Evening courses in Mech. and Elec. Engin. and Com.

CLASS FEES. Per session in each subject in Arts or Science, 4 gs.; Laboratory Research, 6 gs.; Law and Commerce subjects, 1 to 2 gs.

RESIDENCE. Hostels for men (80) and women (35) students.

PUBLICATIONS. *Calendar* in March. Annual Statement of the Chairman in June. *College Review*, 2 issues a year, subscription 4s. *Annual Report* (*Trans.*) *of Coll. Engineering Soc.*, 2s. 6d.

SCHOLARSHIPS include one of £50 for research in Science, open to graduates, renewable up to 3 yrs.; one of £150 p.a. for 2 yrs. plus £38 for travelling, tenable at Royal Holloway Coll., England; one of £150 in Engineering, open to B.E., tenable outside N.Z.

THE YEAR 1924–25. A faculty of Music was instituted. *Number of students*: Matriculated, 585 (including women—143, but excluding 61 men and 16 women who obtained exemption from lectures); unmatriculated, 367 (women—101); residing in hostels, 100 (women—30). Graduate students, 30 (w.—8). Undergraduates proceeding to first degrees: B.A., 310 (w.—121); B.Sc., 59 (w.—4); B.Agr., 4; M.B., 5; LL.B., 72; Mus.B., 1 (w.); B.Com., 24 (w.—4); B.E., 90; total, 484 (w.—114). *Degrees obtained*: (1924): Litt.D. 1 (w.); M.A., 19 (w.—7); B.A., 26 (w.—13); D.Sc., 1; B.Sc., 4; M.Com., 1; LL.M. 1; LL.B., 5; B.Agr., 2.

AUCKLAND UNIVERSITY COLLEGE

VISITOR—THE MINISTER OF EDUCATION.

PRESIDENT OF COUNCIL—HON. G. FOWLDS, C.B.E.

REGISTRAR—M. R. O'SHEA, B.Com.

PROFESSORS, LECTURERS, ETC.

Accounting, etc.
Seaman, A. M., F.I.A.N.Z. Lectr.
Shove, H. W., B.Com. Asst. Lectr.

Agriculture
Riddet, Wm., B.Sc. (Agr.) Glas., N.D.A., N.D.D. Prof.

Architecture
Knight, C. R, B.Arch., M.A. Liv., A.R.I.B.A. Prof.
Cumming, W. A., F.I.A.N.Z. Asst. Lectr.

Biology
Sperrin-Johnson, J. C., M.A., M.Sc., M.B., B.Ch. N.U.I., Litt.D., F.Z.S. Prof.
McGregor, W. R. Lectr.-Demr.

Botany
Lancaster, T. L., M.Sc. Asst. Lectr.

Chemistry
Worley, F. P., D.Sc. Lond, M.A., M.Sc., D.I.C., F.C.S. Prof.
Bowell, A. H., F.C.S. Lectr.-Demr.
Short, W. F., M.Sc. Manc., A.I.C., F.C.S. Lectr.-Demr.

Classics [Prof.
Paterson, A. C., M.A. Edin. & Ox.
Macintosh, J., M.A. Aberd. Asst. Lectr.

Dental Anatomy
Carter, A. M. Lectr.

Education
Fitt, A. B., Ph.D. Leip., M.A. Prof.
Cousins, H. G., M.A. Lectr.

Engineering
Lamb, S. E., B.Sc. Lond., A.R.C.S. Eng., A.M I.M.E. (Applied Mechanics, etc.) Lectr.
Wright, W. S. Lectr. (Elec. E, etc.).
Harkness, D. E. Lectr. (Civil).
McLaren, E. J. R. Demr & Asst. Lectr.
1 Workshop Instructor.

English
Egerton, C. W., M.A. Dub. Prof.
Ardern, P. S., B.A. Ox., M.A. Asst. Lectr.

Forestry
Corbin, H. H., B.Sc. Lond., Edin., and Adel. Prof.
McGregor, W. R. Asst. Lectr.

Geology [Lectr.
Bartrum, J. A., M.Sc., A.O.S.M.

History and Economics
Grossmann, J. P., M.A. Prof.

Journalism
Mulgan, A. E. Lectr.

Law
Algie, R. M., LL.M. Prof.
Fotheringham, A., B.A., LL.B. Camb. Asst. Lectr.
Munro, L. K., LL.M. Asst. Lectr.
Hogben, J. M., LL.B. Asst. Lectr.

Mathematics
Segar, H. W., M.A. Camb. Prof.

Mental and Moral Philosophy
Anderson, W., M.A. Glas. Prof.

Modern Languages
Walker, M., M.A., B.Com. Prof.
Miller, Dora L., M.A., Cert. Assn. Phon. Internat. (Paris) Asst. Lectr.

Music
Thomas, W. E., Mus.D. Ox. Prof.

Physics
Burbidge, P. W., B.A. Camb., M.Sc. Prof.
Salt, G. McB., M.Sc. Lectr. & Demr.
Munro, G. H., M.Sc. „ „

University Extension

Of 12 Tutors assisting the Director appointed by the W.E.A. (L. A. Mander, M.A. Adel.), 3 are members of the College staff. Asst. Tutor Organiser: Richmond, N. M.

GENERAL INFORMATION

Established by Act of the N.Z. Legislature in 1882, the College was affiliated to the Univ. of N.Z. in 1883. It received in 1885 an endowment of 30,000 acres of land, of which one-third was sold in 1915 for £10,246. It receives an annual grant of £11,500.

Of the 14 members of the College Council 3 are appointed by the Governor, 2 by the Prof. Board, 1 by local bodies, 4 are elected by the graduates, and 3 by the Auckland members of the General Assembly. Legislation was passed in 1923 permitting of the appointment of a Principal to the College.

COURSES are provided for the degrees of the Univ. in Arts, Science (including B.Sc. in Archit. and in Forestry), Law, Music, Commerce, Agric., and for the Associateship of the College in Commerce (2 yrs.' course) and in Engineering (3 yrs.').

CLASS FEES. Arts subjects, usually £3 to £5. Science, £5 to £8. Law, £1 : 10s. to £3 per subject.

SCHOLARSHIPS FOR GRADUATES. One for research in Science, £100 p.a. for 3 years.

PUBLICATION. *Calendar* (Feb.).

THE YEAR 1925

BENEFACTIONS. Lissie Rathbone Scholarships, donation of £3000.

NEW BUILDINGS. The new Arts Building was completed. Total cost, including Students' Club House, furniture and fittings, £150,000.

NEW DEPARTMENTS. Forestry and Agriculture.

NEW POSTS. Prof. of Architecture (Prof. Knight, formerly in practice in New York). Prof. of Forestry (Prof. Corbin, formerly Lectr. in Adelaide Univ.), Prof. of Agriculture (Prof. Riddet, from Scotland).

SPECIAL LECTURES were delivered by Dr. Lotsy and Sir Ernest Rutherford, who visited the College.

STUDENTS. Full-time, preparing for a first degree, 149 (including women—68); graduates, 6 (women—2); total, 171 (w.—73), including 16 (w.—2) resident in college. Part-time undergraduates, 482 (w.—121); graduates, 55 (w.—13). Occasional, 127 (w.—43). Pre-matriculation students, 171 (w.)—23). DEGREES OBTAINED: B.A., 40 (w.—17); M.A., 17 (w.—6); B.Sc., 13 (w.—4); M.Sc., 4; LL.B., 16; LL.M., 6; B.Com., 2; B.Agr., 1; Mus.Bac., 1 (w.).

UNIVERSITY EXTENSION. Classes arranged in conjunction with the W.E.A. numbered 28 with an enrolment of 1516—showing a large increase. 15 lectures were broadcasted.

VICTORIA UNIVERSITY COLLEGE, WELLINGTON

VISITOR—THE MINISTER OF EDUCATION.

CHAIRMAN OF COUNCIL—R. MCCALLUM.

REGISTRAR—G. G. S. ROBISON, M.A.

LIBRARIAN—B. H. WARD, B.A.

PROFESSORS, LECTURERS, ETC.

Agriculture
Peren, G. S., B.S.A. Tor. Prof.

Biology
Kirk, H. B., M.A. Prof.
Pigott, Ellen, M.A. Asst. & Demr.
Maskell, F. G., B.Sc. Asst. & Demr.

Chemistry
Robertson, P. W., M.A. Ox., Ph.D. Leip., M.Sc. Prof.
Monro, A. D., M.Sc. Asst. & Demr.
Richardson, G. M. Asst. & Demr.

Classics [Prof.
Brown, J. R., M.A. Ox. & St. And.
Alexander, W., M.A., LL.B. Asst.

Economics [Prof.
Murphy, B. E., M.A., B.Com., LL.B. (E. Hist. & Geog.)
Williams, D. O., M.A. Asst.

Education
Tennant, J. S., M.A., B.Sc. Prof.

English Language & Lit. [Prof.
Mackenzie, H., M.A. St. And.
Tomlinson, H. B., M.A. Asst.

Geology
Cotton, C. A., D.Sc. Prof.

History
Wilson, F. P., M.A. Prof.

Law, Roman, etc. [Prof.
Adamson, J., M.A., LL.B. Edin.
Cornish, H. H., M.A., LL.B. Asst.

Law, English and N.Z. [Prof.
Garrow, J. M. E., B.A., LL.B.
Watson, G. G. G., M.A., LL.B. Asst.
Cousins, A. M., LL.M. Asst.
McKay, Georgina Asst.

Mathematics
Sommerville, D. M. Y., M.A., D.Sc. St. And. Prof.
McLeod, D., M.A. Glas., B.Sc. Asst. & Instr.

Modern Languages
Boyd-Wilson, E. J., B.A. Camb., M.A., B.Sc. Prof.
D'Ery, Mlle. L. Asst.

Philosophy, Mental and Moral
Hunter, T. A., M.A., M.Sc. Prof.
Sutherland, I. L. G., M.A. N.Z., M.A., Ph.D. Ox. Asst. & Demr.

Physics [Prof.
Florance, D. C. H., M.A., M.Sc.
Marwick, Thora, M.Sc. Asst. & Demr.

University Extension

Of the Tutors who conduct one-year classes under joint committee of W.E.A. and College, 3 are members of College staff. Director, T. A. Hunter, M.A., M.Sc.

GENERAL INFORMATION (v. also p. 453)

Established by Act of the N.Z. Legislature, 1897, and affiliated to the Univ. of N.Z., 1899. Endowed by Govt. with 4000 acres. College buildings, towards which Govt. gave £31,000, were opened in 1906; additional wings for Library, etc., and for Physics erected 1921–22 at a cost of £50,000. Annual grants about £14,000.

Full Degree *Courses* are provided in Arts, Science, Law, Com., and Agric., and the earlier stages in other Faculties.

CLASS FEES range between 2 and 4 guineas per annum for each subject.

RESEARCH SCHOLARSHIPS. J. Joseph, £60 for original work; Mrs. S. A. Rhodes' Fellowship (£400) or Scholarship (£125-£250) for women students of Home Science, tenable for 2 years. Farmers' Union Scholarships (£100) for research bearing on Agriculture.

HOSTEL for 41 women students conducted (on definitely Christian lines) by W.S. Hostel Society.

PUBLICATIONS. *Calendar* (Feb.); Students' magazine published towards end of each term.

THE YEAR 1924–25

BENEFACTIONS. £2100 for Farmers' Union Research Scholarships, £3000 for Lissie Rathbone Scholarships in History and English.

STUDENTS. Full-time, preparing for a first degree, 173 (including women—87). Part-time undergraduates, 546 (women—141); graduates, 38 (w.—20). Occasional, 50 (w.—21). DEGREES OBTAINED: B.A., 45 (w.—24); M.A., 17 (w.—11); B.Sc., 11 (w.—2); M.Sc., 3 (w.—1); LL.B., 13; LL.M., 5; B Com., 1; M.Com., 2; Ph.D., 1. Scholars pursuing studies abroad: in Berlin, 1; at Harvard, 1.

UNIVERSITIES OF THE UNION OF SOUTH AFRICA

UNIVERSITY OF SOUTH AFRICA, PRETORIA (formerly the Univ. of the Cape of Good Hope), with 6 CONSTITUENT COLLEGES.

UNIVERSITY OF STELLENBOSCH (formerly Victoria College, Stellenbosch).

UNIVERSITY OF CAPE TOWN (formerly South African College, Cape Town).

UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG (formerly S. African School of Mines and Technology, and, later, University College, Johannesburg).

HISTORICAL SUMMARY (for which the Bureau is indebted to Professor Ritchie of Cape Town). The history of higher education in S. Africa covers but a comparatively short period of time. It may be said to have had its beginnings when, in 1829, the S. African College (now incorporated in the Univ. of Cape Town) was founded, as a proprietary institution, by a number of progressive citizens of Cape Town, assisted by subscribers from various parts of the country. This institution was, at its inception and for a long time afterwards, not much more than a higher-class school, but it had within it the possibilities of growth and started with very high aims. It had a very chequered history for some time, and was on more than one occasion in danger of extinction, but it gradually acquired a stronger position on ceasing to be a proprietary institution and receiving support from the public funds. For 20 years it remained the only educational establishment in S. Africa which aspired to anything beyond the range of elementary education, but in 1849 a rival College (the Diocesan) was started under the ægis of the Episcopalian Church at Rondebosch, a suburb of Cape Town. A few years later, in 1855, a somewhat similar College, St. Andrew's, was founded in Grahamstown, in the eastern part of the Cape Colony. Under the Governorship of Sir George Grey there was founded, in 1855, the Grey College at Bloemfontein in the Orange Free State, the first attempt at higher education beyond the borders of the then Cape Colony. None of these Colleges was well equipped, and most of the work done by them was school work rather than Univ. work, but they gradually acquired a growing influence and formed centres at which development was only a question of time. A very strong impetus in the direction of higher education was given in 1858 by the establishment of a Board of Examiners in Literature and Science. This Board had in view in the first instance the testing by means of examination of the competency of candidates for the Civil Service and public offices, but

it soon extended its scope and started examinations on more distinctively Univ. lines, corresponding roughly to Matricn., B.A., and M.A. The competition between the existing Colleges caused by these examns. had undoubtedly a strong influence on the growth of these Colleges and the greater attention paid to subjects beyond the mere school range. This Board continued to exist until 1873, when a successful attempt was made to institute a Univ. for S. Africa. The Univ. of the Cape of Good Hope, which was then founded, continued to exist until the beginning of 1918, when it was transformed into the Univ. of S. Africa, with its administrative seat at Pretoria. This Univ. was modelled on the lines of the London Univ., as then existing, as a purely examining body. It was governed by a Council, half of whose members were nominated by the Government, half elected by the members of Convocation. It had no constitutional connexion with the Colleges which prepared students for its examns., but the members of the Council who were elected by Convocation tended gradually to be almost entirely members of the teaching staffs of the various Colleges. In this indirect fashion the Colleges had a considerable influence on the development of the Univ. and the extension of the range and scope of its examns. Almost at the same time as the founding of the Univ. of the Cape of Good Hope there was passed by the Cape Parliament a Higher Education Act, which gave definite salary grants to the professors at recognized Colleges. This Act, together with the new impulse given to higher education by the new Univ., had a very marked influence on the development of the Colleges, which now began to increase in staff and numbers of students. The new College of Stellenbosch (afterwards the Victoria College and now the Univ. of Stellenbosch) was founded in 1874, and grew very rapidly, until it was a formidable rival of the older College at Cape Town. Other Colleges were founded also at Somerset East (Gill College) and Port Elizabeth (Grey Institute), but these had only a very short term of life. At a considerably later period, as S. Africa grew in population and wealth, other Colleges sprang into existence. A College for women (the Huguenot College) was founded at Wellington in 1898. In 1904 St. Andrew's College at Grahamstown separated its College department from its school, and the former became incorporated as the Rhodes College. In the same year was founded at Johannesburg an Institute, designed in the first instance for instruction in mining but afterwards developed into a College for higher education generally, and now The University of the Witwatersrand. In 1908 a Univ. College was founded at Pretoria, and in 1909 a similar College was instituted at Pietermaritzburg, Natal.

In 1904 there began a movement for the institution of a teaching, in place of the examining, Univ., and the controversy regarding the rival claims of a federal and a single-college Univ. continued for a number of years. An Inter-Colonial Conference on Univ. Education in 1908 reported in favour of a federal scheme, but nothing came of its decision. A new factor in favour of a teaching Univ. was introduced by the munificent gifts for this purpose of Mr. Alfred Beit, his brother, Mr. (now Sir) Otto Beit, and Sir Julius Wernher. In consequence of these gifts, various attempts were made by the Government to solve

the knotty question of reconciling claims of the existing Colleges with the institution of one or more teaching Univs. A parliamentary committee deliberated on the subject in 1913, and a Commission was appointed in the same year and, after taking evidence, issued its report in 1914. This Commission proposed two Univs., one consisting of a federation of the S. African College and the Victoria College, the other of a federation of the remaining Colleges (Rhodes College being allowed the choice of joining whichever federation it pleased), but the proposal led to no practical result, chiefly owing to the objection on the part of the two oldest and strongest colleges, at Cape Town and Stellenbosch, to the loss of their independence. The problem was at length solved in 1916 by giving charters to both the S. African College and the Victoria College, and by the reincorporation of the old Univ. of the Cape of Good Hope as a federal Univ. embracing all the other Colleges under the name of the Univ. of S. Africa.

The three Acts passed by the Union of S. Africa in 1916 were to the following effect:

I. The Univ. of the Cape of Good Hope became the Univ. of South Africa, with its administrative seat at Pretoria.

II. The South African College became the Univ. of Cape Town, with which is incorporated the S. African College. Its seat is to be upon the Groote Schuur estate on the eastern slopes of Table Mountain.

III. The Victoria College, Stellenbosch, became the Univ. of Stellenbosch, with its seat in the division of Stellenbosch in the Province of the Cape of Good Hope.

The Faculties of the Univ. of Stellenbosch are specified as—Arts, Science, Education, Agric., Law, Music; of the Univ. of Cape Town as—Arts, Science, Medicine, Law, Engineering, Education; of the Univ. of South Africa the Faculties are not defined, but permission is given to each of the constituent Colleges to establish such faculties or depts. as it may deem fit; provided that it shall not, without the consent of the Govr.-General, apply towards the maintenance of a faculty or dept. not established at the commencement of this Act any money granted to the College from public funds. A schedule is appended to the Act stating that professional examns. will be conducted in Law and Jurisprudence, in Civil Service Law, and in the Theory of Land Surveying.

In 1921 Parliament passed a further Act, which has the effect of incorporating, with effect from March 1, 1922, as " The University of the Witwatersrand, Johannesburg " the University College, Johannesburg (formerly the S. African School of Mines and Technology, and one of the constituent colleges of the University of S. Africa). Its Faculties are defined as Arts, Science, Medicine, Law, Engineering, Commerce.

Each of the four Univs. is governed by Council, Senate, and Convocation. The Senate of the Univ. of South Africa consists of the Professors and Lecturers of the constituent Colleges who are heads of such departments as are recognized by the University Council; the Senates of the Univs. of Stellenbosch, the Witwatersrand, and Cape Town consist in each case of the Principal, the Vice-Chancellor, two additional members of the Council appointed for a prescribed period,

and the Professors and Lecturers who are heads of their respective departments.

CONFERENCE. The Vice-Chancellors of the Univs. acting as a Joint Committee (known as *The Vice-Chancellors' Committee*) have, in the exercise of powers conferred by the above-mentioned Acts, made joint statutes and regulations relating to the Joint Matricn. Board, the Joint Committee for Professional Examns., the administration of the Joint Scholarship Funds of the four Univs., the admission of registered students of any one of the Univs. to any of the others, and a minimum period of attendance and minimum fees for the Degree of Bachelor. They have power to formulate regulations dealing with any other matters of common interest.

The JOINT MATRICULATION BOARD (Pretoria) consists of representatives of the four Univs., the Provincial and Union Departments of Education and the Secondary Schools (public and private) of the four Provinces. Its function is to control and conduct the Matricn. Examn. of the four Univs., and to deal with all applications for exemption therefrom. There are two alternative sets of regulations—the interim and the new.* Under interim regulations a candidate must take (1) English or Dutch, (2) Latin or French or German, (3) Maths., (4) Greek or Hist., (5) Physics or Chem. or Phys. Sci. or Bot. or Zool. or Hygiene or Agric. Sci., (6) Engl. or Dutch or French or Ger. or Gk. or Hist. or Portuguese or Hebrew or Native lang. or Geog. The new regns. group subjects: (1) English, Dutch; (2) Maths.; (3) Latin, Greek, French, German; (4) Physics and Chem., Physics, Chem., Bot. and Zool., Bot., Zool., Geol., Hygiene, Agric. Sci. A.; (5) Hist., Geog., English, Dutch, Hebrew, addl. subject from 3 or 4; (6) Agric. Sci. B., Practical Maths., Mechanics, Bookkeeping and Comml. Arith., Shorthand and Typewriting, Drawing, Geom. Drawing, Domestic Sc., Music, addl. lang., addl. subject from 5. Under the new regns., if 6 subjects are taken, 1 must be selected from each group; if only 5 subjects are taken, 3 must be on the higher grade, 1 of which must be the subject from group (1), 1 a subject from group (2) or (3), and 1 from any other except (6). The 5 subjects must be selected from the groups 1 to 5 (inclusive) in such a way that not more than one of these groups is omitted. School-leaving certificates are also issued by the Board under both sets of regns., the syllabuses and examn. papers being the same as for the matricn. examn. with a wider choice of subjects.

Examinations exempting (i.) *wholly, or* (ii.) *subject for subject, from the matriculation examination* of the South African Univs.: (i.) Final degree examns. of univs. recognized by the Joint Board, St. Andrews' L.L.A., Teachers' 1st Class Certificate (S. Africa), Technische Hoogeschool of Delft Diploma examn., including Latin, French, or German, and, subject to certain conditions, Transvaal Secondary School Certificate (in or after 1921), Cape Province Senior Certificate (in or after 1923).

(ii.) Provided that candidates have passed, with at least 4 subjects chosen in accordance with the regulations for a matricn. certificate of the Board, an entrance examn. of any univ. recognized by the Board, senior

* Revision in progress.

certificate of the Univ. of the Cape of Good Hope or School-leaving certificate of the Board, Second Class Teachers' certificate (Transvaal and Natal Province), Eindexamen in Holland of Gymnasium or Hogere Burgerschool, Diploma in Switzerland of "École Supérieure de Jeunes Filles," Abiturienten-examen or Maturitäts Prufung in Germany or Switzerland at a gymnasium, Hoofdakte-examen in Holland, one of the examns. numbered in Appendix XX. as 7 (*a*), 8 (*a*), 9 (*b*), 10 (*b*), 13 (*b*), 14 (Higher), or, *with credit* in each case, examns. 7, 8 (*b*), 9, 10, 13, 13 (*a*), 14. Dynamics of the Scottish Universities preliminary examn. and Mechanics of the Senior or School-leaving Certificate (S. Africa) are accepted in lieu of a matricn. science subject.

Candidates over the age of 25 who desire to proceed to a degree course and are not eligible for exemption under the ordinary regulations, may be specially exempted from Matricn. on the recommendation of the Univ. concerned.

The JOINT COMMITTEE FOR PROFESSIONAL EXAMNS. (Address—P.O. Box 392, Pretoria) consisting of 2 representatives of each of the 4 Univs. (one for Law and one for Survey) and 5 persons appointed by the Govr.-General (of whom at least 2 must be for Law and 2 for Survey), controls and conducts: (1) Law Certificate Examn., (2) Civil Service (Lower and Higher) Law Examns., (3) Examns. in Theory of Land Surveying, and (4) Final Examn. for Patent Agents. It also conducts in certain cases on behalf of the Supreme Court the Advocates' Admission Examn. in Roman-Dutch Law and the Statute Law of the Union.

The SECOND INTER-UNIVERSITY CONFERENCE (of South African Univs.) was held at Cape Town in Jan. 1924. See also p. 476—other new developments.

A NATIONAL UNION OF SOUTH AFRICAN STUDENTS was formed in 1924. President, L. Marquard, Grey College School, Bloemfontein; Secy., C. J. O'Kennedy, Secondary School, Riebeek West, C.P. A party of 150 university students visited Europe in Dec. 1925.

TERMS. The academic year is usually divided into 4 terms, beginning in Feb. or March and ending Nov. or Dec.

UNIVERSITY OF CAPE TOWN

WITH WHICH IS INCORPORATED THE

SOUTH AFRICAN COLLEGE

VISITOR—THE GOVERNOR-GENERAL.

CHANCELLOR—THE PRINCE OF WALES.

VICE-CHANCELLOR—Principal Sir CARRUTHERS BEATTIE, D.Sc., F.R.S.E.

PRESIDENT OF CONVOCATION—Advocate R. W. CLOSE, K.C., B.A., LL.B., M.L.A.

CHAIRMAN OF COUNCIL—J. M. RUSSELL, M.A., B.D., LL.D.

REGISTRAR—W. G. R. MURRAY, M.A.

PROFESSORS, LECTURERS, ETC.

Accounting and Business Method
Galbraith, H. G., B.A. Camb., C.A. Edin. Prof.

African Life and Languages
.....
Prof. of *Social Anthropology*
Beach, D. M., B.A. Harv., Ph.D. Lond. Sr. Lectr. in Phonetics.
Goodwin, A. J. H., B.A. Camb. Research Asst.
Bleek, Miss D. F. Hon. Reader.

Anatomy
Drennan, M. R., M.A., M.B., Ch.B. Edin. Prof.
Wolff, R., B.Sc. Cape, M.R.C.S., L.R.C.P., L.D.S. Asst.
Becker, L. van R., M.D., F.R.C.S.E. Asst.
Gordon, W. L., O.B.E., M.D., F.R.C.S. Edin. Lectr.
Cohen, S. M., B.A. Demr.
Dry, T. J., B.A. Demr.
Zuckerman, S., B.A. Demr.

Architecture
Brownlee, H. J., A.R.I.B.A. Lectr.

Bacteriology
Campbell, W., M.B., B.Sc. (P.H.) Edin. Prof.
McCullough, Miss N., B.A., M.B., Ch.B. Asst.

Bio-Chemistry [Prof.
Edie, E. S., M.A., D.Sc. Edin.

Botany
Compton, R. H., M.A. Camb. Prof. and Dir. of National Bot. Gardens.
Adamson, R. S., M.A., B.Sc. Edin., M.A. Camb. Bolus Prof.
Stephens, Miss E. L., B.A., F.L.S. Sr. Lectr.
Levyns, Mrs. J. E. P., B.A. Lectr.
Bolus, Mrs. F., B.A. Curator of Bolus Herbarium.
Giffen, M. H., B.A. Demr.

Chemistry
Tietz, H., M.A. Cape, Ph.D. Berl. (Organic) Prof.
Thomas, J. Smeath, D.Sc. Liv. Prof. (Inorganic C.).
Newbery, E., D.Sc. Manc., F.I.C. (Physical) Prof.
Pugh, W., B.Sc. Lond. Lectr.
..... Lectr.
..... Demr.
Partridge, F. C., M Sc. Demr.

Classics
Ritchie, W., M.A. Aberd., M.A.Ox. Prof. (Latin and Class. Philol.).
le Roux, T., M.A., Litt.D. Amst. Prof. (Gk.).
..... Sr. Lectr.
Farrington, B., M.A. N.U.I. „ „

Commerce [Prof.
Plant, Arnold, B. Com. Lond.

Economics
Leslie, R., M.A. Edin., Dean of Fac. of Commerce Prof.
..... Sr. Lectr.

Education
Clarke, F., M.A. Ox. Prof.
Scrimgeour, A. C. S., M.A. Edin. (Method) Prof.

Sr. Lectrs.:
Jamieson, J. N., M.A. St. And.
Malherbe, E. G., B.A. Cape, Ph.D.
Freund, Miss M.

Lectrs.:
Jordaan, J. J., B.A. Cape
De Mavillac, Miss D.

Electrotechnics [Prof.
Bohle, H., M.V.D.E., M.I.E.E.
Rogers, A. H. E., A.C.G.I. Lond. Sr. Lectr.
Burmeister, A. V., Dipl. Ing. Asst.

Engineering, Civil
Snape, A. E., M.Sc. Manc., A.M.I.C.E., F.R.San.I. Prof.
Stewart, G. S., A.M.I.C.E. Sr. Lectr.
Gilmore, J. A., B.Sc., M.A. Demr.

Engineering, Mechanical [Prof.
McMillan, D., A.R.T.C., A.M.I.M.E.
Weaver, W. G., A.M.I.M.E. Sr. Lectr.
Brooks, J. J., A.R.C.S. Lectr.
Sacks, S. Asst.

English [Prof. (E. Lit.).
Clark, J., M.A., LL.D. St. And.
Mackie, W. S., M.A. Aberd., B.A. Ox. Prof. (E. Lang.).
..... Sr. Lectr.

Ethics and Politics
Malan, G. H. T., M.A. Cape, D.Phil. Glas. Prof.

Fine Art
Wheatley, J. Prof.
Groves, C. S., A.R.C.A. Asst.
Thatcher, P. Asst.

French
Nauta, R. D., O.A. Prof.
..... Asst.

Geology, v. Mineralogy

German
Prinz, J., Ph.D. Munich Prof.
..... Lectr.

Hebrew
Bender, A. P., M.A. Camb. Prof.

History
Walker, E. A., M A. Ox. Prof.
Mandelbrote, H., M.A., B.A. Ox. Sr. Lectr.

Law [Prof.
Wille, G., B.A., LL.B. Camb.
Wylie, J. K., M.A., LL.B., D.Litt. Edin., LL.B. Lond. Prof. (Rom. L.).
Emmett, E., M.A., LL.B. Manc. Prof.
Clouts, P. M., LL.B. Camb., B.A. Cape Lectr.
De Villiers, J. E., B.A., B.C.L. Ox., B.A. Cape Lectr.
Howes, R. B., M.A., LL.D. Dub., LL.B. Hon. Lectr.
Thompson, C. N., M.A. Cape, LL.B. Camb. Lectr.

Mathematics, Pure
Crawford, L., M.A. Camb., D.Sc. Glas. Prof.
..... Sr. Lectr.
Pagan, Miss G. M., M.A. Lectr.

Mathematics, Applied
Brown, A., M.A. Camb., M.A., B.Sc. Edin. Prof.
v. d. Lingen, J. S., B.A. Sr. Lectr.

Mineralogy and Geology
Young, A., M.A., D.Sc. Edin. Prof.
Walker, A. R. E., B.Sc. Lond., A.R.C.S. Lond. Sr. Lectr.

Music

Bell, W. H., F.R.A.M. Prof.

Sr. Lectrs. :

Bell, Mrs. W. H., L.R.A.M.; Bonner, Miss E., L.R.A.M., A.R.C.M.; Curling, H. B.; Fincken, Miss E., A.R.A.M.; Haasdyk, P. W.; Hely-Hutchinson, C. V. N. H.; Lardner, Mrs D. F., L.R.A.M., A.R.C.M.; Marx, E.; Rainier, Miss E. F. D., L.R.A.M.; Spear, Miss R., A.R.A.M.; Taylor, C.

Lectrs. :

Greathead, Miss L. B., A.R.A.M.; Isaacson, Miss L.; Leffler, Miss W., L.R.A.M.; Tobias, I., A.R.A.M.

19 Assts.

Nederlands en Afrikaans

du Toit, P. J., M.A. Cape, Ph.D. Ghent Prof. (Lang.).
Botha, M. C., M.A. Prof. (Lit.).
van der Merwe, I. W., M.A. Lectr.
Bosman, D. B., M.A. Cape, Ph.D. Groningen Lectr.

Philosophy, v. also Ethics [Prof.

Reyburn, H., M.A., D.Phil. Glas.
Eales, W. C., B.A. Cape Sr Lectr.
Taylor, J. G., M.A. Sr. Lectr.

Physics

Ogg, A., M.A., B.Sc. Aber., Ph.D. Gött. Prof.
Schonland, B. F. J., O.B.E., B.A. Camb. and Cape Sr. Lectr.
Grindley, E. N., M.Sc. Bristol Lectr.
Halliday, E. C., B.Sc. Demr.
Immelman, M. N. S., B.Sc. Demr.
Ravenscroft, A. P., B.Sc. Demr.

Physiology

Jolly, W. A., M.B., Ch.B., D.Sc. Edin. Prof.
Mirvish, L., M.A., M.B., Ch.B. Asst.
Cohen, M., M.B., Ch.B. Edin. Asst.
Bosman, L. P., B.A. Cape Lectr.
Aaronowitch, J., M.A. Demr.
Nathan, I., M.A. Demr.

Politics, v. Ethics

Zoology [Prof.

Gilchrist, J. D. F., M.A., D.Sc. Edin., Ph.D. Zur., F.L.S.
von Bonde, C., M.A. Sr. Lectr.
Swart, D. B., M.A. Asst.

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics

Forbes, A. Gordon, M.B., Ch.B. Edin. Clin. Teacher.
Daniell, G. W. Bampfylde, M.R.C.S. Lectr.
Muir, R. M., M.B., Ch.B. Edin. Clin. Teacher.
Berelowitz, H., M.B., Ch.B. Clin. Teacher.

Dermatology

Smith, Hugh, M.D. Lond. Lectr.

Ear, Nose, and Throat

Luckhoff, J., M.D. Edin. Lectr.

Infectious Diseases [Lectr.

Cooney, W. P., L.R.C.P.I., L.R.C.S.I., L.M., D.P.H.

Med. Jurisprudence

Wicht, W. F., M.D. Dub. Lectr.

Medicine

Falconer, A. W., C.B.E., M.D. Aber., M.R.C.P. Prof.

Medicine, Clinical [Lectr.

Marais, D. P., M.D., F.R.C.S.
Forman, F., M.B., Ch.B. Edin. Tutor.
Silberbauer, S. F., M.D. Lectr.

Medicine, Psychological [Lectr.

Swift, E. W. D., M.B. Lond.
Kooy, F. H., M.R.C.S., L.R.C.P. Lectr.

Obstetrics and Gynæcology

Crichton, E. C., B.A., M.B., B.A.O., B.Ch. Dub. Prof.

Obstetrics, Clinical
Simpson Wells, A., M.D. Glas., F.R.C.S.E. Lectr.
Charnock, F. S., M.B., Ch.B. Manc. Tutor.
Sharp, C. W. C. Tutor.

Ophthalmology
Wood, D. J., M B. Edin. Lectr.

Pathology
Ryrie, B. J., M.B. Prof.
Fuller, T. A., M.B., Ch.B. Edin. Asst.

Pharmacology [Prof.
Gunn, J. W. C., M.B , Ch.B Edin.
Epstein, D., M.B., Ch.B. Junior Asst.

Public Health [Lectr.
Higgins, T. S., M.D., B.Sc., D.P.H.

Surgery
Saint, C. F. M , C.B.E., M.D., M.S. Durh., F.R.C.S. Prof.

Surgery, Clinical
Elliott, C. C., M.D., M.R.C.S. Lectr.
Fuller, E. B., M.B , F.R.C.S.E. Lectr.
McLachlan, A. R., F.R.C.S., L.R.C.P. Lectr.
Sandes, T. L., M.B., B.Ch. Dub. Clin. Tutor.

Vaccination
Molteno, V. G., M B. Camb. Lectr.

Venereal Diseases
Fraser, A. R., M.D. Lectr.

GENERAL INFORMATION (v. also p. 466)

The University of Cape Town, with which is incorporated the South African College, created by Act 14 of 1916, came into legal existence on April 2, 1918, when the Council took over a bequest by Sir Julius Wernher of £250,000 and a donation of equal amount from Mr. Otto Beit, who added £50,000 to a lapsed bequest by Mr. Alfred Beit. The S. African College, out of which the University grew, opened in 1829 as a private venture, became a public institution in 1837. In 1895 classes were opened in mining engineering. In 1900 the matriculation classes were transferred to the College school and the College confined itself to University teaching. In 1902 £40,000 was collected from past students and others, and courses for medical students and civil, mechanical, and electrical engineers were begun. Provision was made in 1910 for post-graduate courses for the training of teachers, in 1917 for the third year of medical study, and in 1918 for a complete medical course. In 1921 Schools of Commerce and of Music were established. Early in 1921 a special appeal for funds was concluded; the amount obtained was about £280,000, including a sum of £50,000 for the Jameson Memorial Hall.

A site for the University has been provided by Government at Groote Schuur, a suburb of Cape Town. Pending the erection of buildings there, those formerly occupied by the Univ. of the Cape of Good Hope have been rented.

LIBRARY, 30,000 vols. Access to S.A. Public Library, 100,000 vols., specially well equipped in Bot. and Zool. Depts. Also Bolus Bot. Library and (for students of Teaching) the Library of the Educn. Dept. The Bolus HERBARIUM includes Guthrie Collection of Cape Flora. The S.A. MUSEUM of Nat. Science adjoins the Univ. grounds. MARINE BIOL. LABORATORY at St. James'.

FACULTIES. Arts, Commerce, Science, Engineering, Law, Medicine, Education, and Music.

DEGREE COURSES. B.A., 3 yrs.; B.Sc. (in Pure Sc.), 3 yrs.; B.Com., 3 yrs.; LL.B., 4 yrs.; B.Sc. (in Applied Sc.), 4 yrs.; B.Mus., 4 yrs.; B.Arch., 5 yrs.; M.B., Ch.B., 6 yrs.; M.A., 1 yr.; M.Sc., 1 yr.; M.Com., 1 yr.; B.Ed., 2 yrs. after B.A. The M.A., M.Sc., and M.Com. courses are open to graduates

of any approved Univ.; so also are courses for the Ph.D. (open to bachelors of at least 3 yrs.' standing), and D.Litt., D.Sc. (open to bachelors of at least 4 yrs.' standing), for which attendance for 2 yrs. may be required. The M.Com. is open to B.Com. of 3 yrs.' standing. The LL.M. is open to LL.B. after 2 yrs.' attendance; the LL.D. is open to LL.B. or LL.M.

OTHER COURSES. For Teachers' Certificate.—Secondary Higher, Secondary Lower, Primary Higher; Univ. Diploma in Commerce, in Architecture, in Music, in Fine Art, in Speech Training (elocution); Univ. post-graduate diploma in public health; Law Certif., Land Surveying, Civil Service Law examn., Dentistry (preliminary subjects), and for students of Agric. and Theol. proposing to graduate in those subjects elsewhere.

RECOGNITION OF AND BY OTHER INSTITUTIONS. Attendance in Stellenbosch and the constituent Colls. of the Univ. of S. Africa is accepted under certain conditions as part of the attendance qualifying for degrees. Attendance on classes in Physics, Chem., Bot., and Zool. are accepted by Aberd., Bris., Durh., Edin., Glas., Liv., Manc., Dub., R.C.P. Lond., R.C.S. Eng.; so also are examns. in the Faculty of Arts on the special courses in these subjects (except by Dub.). Attendance on courses in Anat. and Physiol. is accepted by Aberd., Durh., Edin., and Glas., R.C.P. Lond., and R.C.S. Eng.; examns. in the Faculty of Arts in these subjects are accepted by Aberd. (v. also pp. 277, 310, 638). The Dentistry course is recognized by the R.C.S. Eng., R.C.P.S. Edin., and Edin. Dental School; the Hygiene course by the Conjoint Boards of Eng., Ire., Edin., and Glas.

FEES. For tuition, including registration, excluding laboratory fees, annually: Arts or Sc., from £23 to £31; Engin., £31 to £35; Med., £38 (average); Law (LL.B.), £23 to £29, Law Certif., £11; Teaching, £15 to £27; Surv., £27; Commerce (B.Com.), £23; Architecture, £35; Fine Art, £32; Music, £25 to £40. Examn. and graduation fees, minimum: B.Ed., £10; B.A. or B.Sc. or B.Com., £11; B.Sc. Engin., £20; LL.B., £30; M.B., Ch.B., £30; Master's degree, £6; Doctor's, £13.

SCHOLARSHIPS OPEN TO GRADUATES OF THE UNIV. Jamison, Croll, Porter, George Grey, Donald Currie, Willem Hiddingh, H. B. Webb, and several others, of £150 and £200 p.a., tenable generally for 3 yrs., and awarded from time to time after the M.A. or M.Sc. examns. £150 p.a. for 2 yrs., awarded annually after the B.Sc. (Engin.) examn.; £150 for 1 yr., awarded annually after the final professional examn. for M.B., Ch.B.

Travelling concessions to students are granted by the Union-Castle S.S. Coy. and (except to law students and married persons) by the Union Railways.

RESIDENCE. Hostels for 180 men and 80 women. Board and residence, £60 p.a.

PUBLICATIONS. *Calendar* (Dec.); Students' Repve. Council's *University Quarterly*; *Annals of the Bolus Herbarium.*

SUMMARY FOR THE YEAR 1925

NEW BUILDINGS. Foundation stones of main buildings and medical block to be erected on the Groote Schuur estate were laid by H.R.H. Prince of Wales in May, and by H.E. the Governor-General in March respectively. The faculty of music was transferred to Strubenholm, contiguous to the new buildings and recently acquired by the Univ., which has also purchased an adjoining property (Glenara) for the administrative department.

NEW POSTS. Third prof. of law, prof. of fine art and director of the school of art, 2 additional lectrs. in the dept. of education, lectr. in architecture, 2 assts. in school of fine art.

OTHER NEW DEVELOPMENTS. Arrangements were made to hold in Cape Town in Dec. 1925 a preliminary conference of delegates from the Universities in South Africa for the discussion of matters of common interest. If this conference yields fruitful results the institution of regular University conferences will be considered. The school of architecture organized by the Cape Institute of Architects and the Cape Town School of Art controlled by the Cape Education Dept. have been taken over by the Univ.

RELATION WITH TECHNICAL SCHOOL. Attendance at courses at the Cape Technical College has been recognized for B.Com. and teacher's certificate (commercial).

VISITS. Sir John Adams (invited by the South African Teachers' Assocn.), Dr. Morris Ginsberg, reader in Sociology in the Univ. of London, and Prof. Hrdlicka of America (Evolution).

RESIGNATIONS. W. G. Barker (apptd. prof. of chemistry at Rhodes Univ. College, Grahamstown), Miss M. E. Greenlees, lecturer in English (appointed Principal, Wesleyan High School, Grahamstown), C. F. K. Watson, senior lecturer in classics (entering business in India). J. Boyd is resigning chair of German at end of year and accepting a readership at the Univ. of Bristol.

OTHER IMPORTANT OCCURRENCES. H.R.H. Prince of Wales was installed as Chancellor of Univ. and honorary degree of LL.D. was conferred upon him in May.

STUDENTS (1924). Full-time, total 1085; residing in official residences, 270 (90 women); preparing for a first degree, 780; graduate students, 73; taking courses for certificates or diplomas, 305; occasional, 468 (the total number of women students included in the above is about 780). DEGREES OBTAINED (July and December): B.A., 82; B.Sc., 12; B.Sc.Eng., 11; LL.B., 4; M.B., Ch.B., 12; B.Com., 2; M.A., 17; M.Sc., 5; B.Ed., 13; Ph.D., 2; D.Sc., 1.

UNIVERSITY OF SOUTH AFRICA

(By Act 12 of 1916 of the Legislature of the Union of South Africa the UNIVERSITY OF THE CAPE OF GOOD HOPE, incorporated by Act of the Cape Legislature in 1873, became and was incorporated in the University of South Africa with administrative seat at Pretoria, v. p. 468.)

CHANCELLOR—Field-Marshal H.R.H. THE DUKE OF CONNAUGHT AND STRATHEARN, K.G., K.T., K.P.

VICE-CHANCELLOR AND CHAIRMAN OF COUNCIL—Sir J. E. ADAMSON, K.B., M.A., D.Lit.

CHAIRMAN OF SENATE—Professor P. J. DU TOIT, B.A., D.Med. Vet., Ph.D.

REGISTRAR—C. C. GRANT, M.B.E., M.A. (P.O. Box 392, Pretoria).

PRESIDENT OF CONVOCATION—Professor H. REININK, D.Litt.

CONSTITUENT COLLEGES

GREY UNIVERSITY COLLEGE, Bloemfontein (1855).

HUGUENOT UNIVERSITY COLLEGE, Wellington (1874).

NATAL UNIVERSITY COLLEGE, Pietermaritzburg (1909).

RHODES UNIVERSITY COLLEGE, Grahamstown (1855).

POTCHEFSTROOM UNIVERSITY COLLEGE, Potchefstroom (1922).

TRANSVAAL UNIVERSITY COLLEGE, Pretoria (1903).

FACULTIES: Arts (including Divinity, Music, and Education), Science, Engineering, Agriculture, Law, Commerce, Veterinary Science.

DEGREES. B.A., M.A., M.Ed., D.Litt., D.Phil.; B.D., D.D.; B.Mus., M.Mus., D.Mus.; B.Com., M.Com.; B.Econ., M.Econ.; B.Sc., M.Sc., D.Sc., B., M., and D.Sc. in Engin.; B., M., and D.Sc. in Agric.; LL.B., LL.M., LL.D.; B.V.Sc., D.V.Sc.; B.A. (Fine Arts).

Courses for B.A., B.Com., B.Econ., B.Sc.—3 yrs.; B.Mus., B.A. (Fine Arts), B.Sc. Eng., B.Sc. Agr.—4 yrs.; B.V.Sc.—5 yrs.; LL.B.—3 yrs., after graduating in some faculty other than Law. *Internal* candidates for these degrees must have attended as registered matriculated students at a constituent Coll. for the prescribed periods, provided that the Senate will accept as qualifying attendance on recognized courses at any of the other South African Univs. and may accept attendance and examns. at other recognized Univs. But the minimum attendance on approved courses at the Univ. of S.A. for the Bachelor's degree in Applied Science is the final 2 yrs., and for other Bachelor's degrees one-half of the courses prescribed. *External* students must have their curricula approved by the Senate and must pass the examns. prescribed for them from year to year by the Senate in order to qualify for degrees.

Higher Degrees. The M.A., M.Sc., M.Com., M.Econ., and M.Sc. (Agric.)

courses each cover 1 yr.; the M.Ed. 2 yrs. The M.Sc. (Engin.) may be conferred on a B.Sc. (Engin.) who has had, since graduating, 2 yrs.' practice of his profession. A thesis is required for the LL.M., M.Sc. (Agric.) or M.Sc. (Engin.). Doctorates are granted for approved theses to bachelors of at least 5 yrs.' or masters of at least 4 yrs.' standing (reducible to 4 and 3 respectively in consideration of attendance for one year as a research student at an approved institution). The master's and doctor's degree may also be conferred *honoris causa*.

Research (*Bachelor*) *Degrees*. On proof of special qualifications in any direction a person may be exempted from the matricn. examn. and admitted to courses of special study and research with a view to graduation, the conditions being determined by Boards of Faculty subject to approval of Senate.

Diplomas in Domestic Science and Education (Lower) open to matriculated students—3 yrs.' course; in Education (Higher)—1 yr. course after graduation; (as a temporary measure) in Commerce and Public Admn.—non-matriculated students who fulfil examn. requirements for B.Com. or B.Econ.; in Bantu Studies (Lower and Higher).

SCHOLARSHIPS FOR GRADUATES: 2 or 3 of £150 to £200 p.a. for 3 yrs. awarded annually on results of M.A. and M.Sc. examns.; Webb research S., £200, open to M.A. or M.Sc. of not more than 2 yrs.' standing, undertaking approved course of research work, renewable up to 3 yrs.

SCHOOL AND MUSIC EXAMNS. The Univ. controls and conducts a *Junior Certificate* examn. of standard 2 yrs. below matricn., and examns. for Music Certifs. and Licentiate Diplomas (for Teachers of Music and Solo Performers). The examiners in the practical music examns. are nominated by the Assoc. Board of R.A.M. and R.C.M., London.

THE YEAR 1924. Statutory power was obtained by the Univ. Senate to accept any examination (instead of only examn. at a university) as exempting from its own examns. *Honorary degrees*: D.Litt.—Prof. W. Ritchie; LL.D. —Sir E. J. Buchanan; D.Sc.—Prof. A. J. T. Janse; D.V.Sc.—Sir A. Theiler. *Other degrees*: B.A., 148 (including women—45); M.A., 13 (women—2); M.Ed., 1; D.Litt., 1; B.Sc., 59 (w.—19); M.Sc., 11 (w.—3); D.Sc., 1; LL.B., 18; B.Sc.Agr., 10 (w.—3); B.Com., 9; B.Econ., 5; B.V.Sc., 8. *Students*. Internal, 1562. External, 533, including Arts, 386; Science, 32; Commerce, 95; Law, 47; Post-graduation, 14. *Junior Certificate candidates*, 4621; Music, theory, 3400, practical, 3612. *Scholarships* (post-graduation) held abroad: at Amsterdam, 1; Oxford, 2; London, 1; Edinburgh, 1.

GREY UNIVERSITY COLLEGE, BLOEMFONTEIN, O.F.S.

CHAIRMAN OF COUNCIL—J. S. M. RABIE, B.A. Cape.
RECTOR—Rt. Rev. J. D. KESTELL.
REGISTRAR—R. B. SAAYMAN, B.A. Cape.

PROFESSORS, LECTURERS, ETC.

Afrikaans and German
Malherbe, D. F., B A. Cape, Ph.D. Freiburg-i-Bn. Prof.

Botany
Potts, G., B.Sc. Durh., Ph.D. Halle Prof.
Gemmell, Miss D. M., B.Sc. Demr.

Chemistry
Rindl, M., D.Ing. Charl. Prof.
Zweerts, F., Ingr. Delft Lectr.

Classics [Lectr.
Ross, J. A., M.A. Cape (Greek)
Conlin, W., M.A. Dub. (Latin) Prof.

Dutch and French
Francken, A., B.A. Cape Prof.

English
Johnson, W. S., M.A., R.U.I. Prof.

Geology
Von Bonde, W., M.A., D.Sc. Cape Town Lectr.

History and Economics [Prof.
Barnard, S. P., Litt. Docts. Leyd.

Law [Lectr.
Brink, C. P., B.A., LL.B. Cape
Hœxter, O., B A., LL.B. Cape Lectr.

Mathematics (Pure and Applied)
Arndt, W. F. C., B.A. Cape, Ph.D. Gött. Prof.
Marquard, D., B.Sc. Asst.

Pedagogy
Eybers, E., M.A. Edin., Ph.D. New York Prof.

Philosophy
Forsyth, T. M., M.A., D.Phil. Edin. Prof.

Physics
Logeman, W. H., M.A. Cape Prof.
Du Plessis, A. J., B.Sc. Demr.

Zoology
Dreyer, T. F., B.A. Cape, Ph.D. Halle Prof.
Van Rooyen, J. H., B.Sc. Demr.

GENERAL INFORMATION (v. also pp. 466, 477)

Founded in 1855 by Sir George Grey, the College was reorganized in 1904, constituted a Univ. College in 1907, and incorporated by statute in 1910. It is 2 miles from Bloemfontein town. It provides *courses* for degrees in Arts, Science, and Law, and for the Teachers' Diplomas, and prelim. training for Med., Engin., Agric., and Comm.

HOSTELS for men and women within the Coll. grounds. BOARD AND RESIDENCE : £15 per quarter. TUITION FEES : £5 per quarter (Law, £2 : 10s.).

SCHOLARSHIPS, open to residents of O.F.S. for study abroad, 4 or 5 of £150 p.a. for 3 yrs. ; of these 3 are for Agric. study.

UNIV. EXTENSION lectures, chiefly by members of the staff, in Bloemfontein and other centres.

THE YEAR 1924–25. *Number of Students* (1925): Preparing for a first degree, 274; Highest Teachers' Diploma, 19; Law Certificate, 22; Master's Degrees, 9; LL.B., 15; Pharmacy, 14. *Degrees obtained* (1924): B.A., 18; B.Sc., 13; M.Sc., 1; M.Ed., 1; LL.B., 3.

HUGUENOT UNIVERSITY COLLEGE, WELLINGTON, C.P.

PRESIDENT—BERTHA STONEMAN, D.Sc.

PROFESSORS AND LECTURERS

Botany [Lectr.
Dorr, Elenor M., M.A. Corn.

Chemistry [Prof.
Kilroe, Miss F. C., B.Sc. Lond.

Classics [Prof. (Latin).
Sargent, Helen A., M.A. Oberl
Freemantle, Miss I. M. E., M.A. Oberlin Lectr.

Domestic Science
Mackenzie, Miss L. M., Dipl. Home Sc. Lond. Lectr.

Dutch [Prof.
van de Koppel, Miss L. H., M.A.

Education
de Wet, Miss F. C., M.A. Col., B.A. Prof.

English
Snell, Florence M., M.A. Oberl., Ph.D. Yale Prof.

French and German [Lectr.
Hansen, Christine, Ph.D. Heid.

History [Prof.
Stafford, Susan, M.A. N.U.I.

Horticulture
Hebditch, Miss G. L., Dipl. in H. (Reading) Lectr.

Mathematics [Prof.
Johnson, Alta M., Ph.B. Neb.

Philosophy [Prof.
Stoneman, Bertha, D.Sc. Corn.
Robson, Grace M., B.A. Cape Lectr.

Physics [Lectr.
Ladler, Miss E. M., B.Sc. Lond.

Zoology and Physiology
Borthwick, Miss C. E. G., B.Sc. St. And. Lectr.

GENERAL INFORMATION (v. also pp. 466, 477)

Originally a department of the Huguenot Seminary founded by Dr. Andrew Murray in 1874, the College was incorporated by Act of the Cape Legislature in 1907 as a College for Women and became a constituent College of the Univ. in 1918.

LIBRARY, over 7000 vols. HERBARIUM, over 2000 specimens. LABORATORIES, Bot., Chem., Physics, Zool., Dom. Sc., Physiol., Psych.

COURSES for B.A., B.Sc., M.A., M.Sc., and 1st Class Teachers' Certif. Special courses in Horticulture and in Domestic Science.

EXPENSES. Class Fees, £18 per annum. Board at the College Hostel, £44 p.a.

THE YEAR 1925. Dr. A. G. Newell retired. *Students*, full-time, women, 82 (70 resident), men, 19; graduate students, 5 (men—2); occasional, 2. *Degrees obtained* (1924): B.A., 7; B.Sc., 3; Ed.Dip., 11.

NATAL UNIVERSITY COLLEGE, PIETERMARITZBURG, NATAL

CHAIRMAN OF COUNCIL—The Hon. Sir JOHN C. DOVE WILSON.

CHAIRMAN OF SENATE—Prof. BESSELAAR.

REGISTRAR—Prof. WATERHOUSE (acting), P.O. Box 375, Maritzburg.

PROFESSORS AND LECTURERS

Art [Prof. (Fine Arts).
Oxley, O. P. J., A.R.C.A. Lond.

Auditing
Atkinson, A., B.Sc. Durh. Lectr.

Botany [Prof.
Bews, J. W., M.A., D.Sc. Edin.
Bayer, A. W., M Sc. Lectr.

Business Management and Accounting
Oldham, O., A.C.I.S. Prof.

Chemistry
Denison, R. B., D.Sc. Leeds, M.A. Cape, Ph.D. Bres. Prof.
Mudie, A. D., M.A., B.Sc. St. And. Lectr.

Classics
Petrie, A., M.A. Aberd., B.A. Camb. Prof.

Dutch and German
Besselaar, G., M.A. Cape, D.Litt. Ghent Prof.

Education
Ferguson, J. G. W., M.A. Ox. and St. And. Prof.
Reid, A., M.A., B.Sc. Aberd. Assoc. Prof.

Engineering [Prof. of Mech. E.
Neal, J. H., A.R.C.Sc. Lond.
Clark, H., B.Sc. Lond. Prof. of El. E.

English and Philosophy
Waterhouse, O., M.A. Manc. and Leeds Prof.
Sweeney, G. W., B.A., LL.B. Cape Lectr.

French
Guiton, P. A., B.A. Lond. Lectr.

Geology and Geography
Sayce, R. U., M.A. Wales Lectr.

History [Prof.
Hattersley, A. F., M.A. Camb.

Law [Prof.
Burchell, F. B., M.A., LL.B. Camb.

Mathematics, v. also Physics
Roseveare, W. N., M.A. Camb. Prof.

Physics
Mesham, P., M.Sc. Liv. Prof.
Lang Brown, A., B.A. Camb. (also Lectr. in Applied Maths.) Lectr.

Zoology
Warren, E., D.Sc. Lond. Prof.

GENERAL INFORMATION (v. also pp. 466, 477)

Established by an Act of 1909, the College was opened in 1910 in the Town Hall and moved in 1912 to its own buildings (which, with equipment, cost £60,000) in the suburb of Scottsville. A new Science block and a women's hostel were added in 1921. Students have access to Maritzburg *Botanical Gardens* and Govt. *Museum*.

COURSES leading to the B.A., B A. (Fine Arts), B.Com., B.Sc., M.A., M.Sc.,

etc., 1st examn. for B.Sc. in Agric. (including 1st yr.'s course for Med. students), LL.B., Natal Law Certif. and Natal Advocates' Law examn., Survey examn. (theory only). Recently Faculties of Engineering and Commerce have been instituted in Durban in co-operation with the Natal Technical College, five of the staff of which have become members of the Senate of the Natal Univ. College—four professors and one lecturer. One of the former is the professor of Fine Arts; and a 4-yrs.' course for the B.A. (Fine Arts) is provided in Durban.

HOSTEL ("University Hall") in grounds for women students.

THE YEAR 1925. *Number of Students*: Full-time, preparing for first degree, 146 (including women—79); graduates, 47 (women—13); preparatory classes, 21 (w.—2); total full-time, 215 (w.—94); in the hostel, 28. *Degrees obtained* (1924): B.A., 16; B.Sc., 17; LL.B., 2.

THE POTCHEFSTROOM UNIVERSITY COLLEGE, TRANSVAAL

CHAIRMAN OF COUNCIL—Rev. N. H. v. d. WALT.

RECTOR AND CHAIRMAN OF THE SENATE—Prof. POSTMA.

REGISTRAR—Rev. W. J. DE KLERK.

PROFESSORS AND LECTURERS

Botany
Radloff, Miss M., M.Sc. Lectr.

Chemistry
du Plessis, D. J., D.Sc. Lectr.

Classics
Postma, F., D Phil. Amst. Prof.
du Plessis, L. J., M.A. Cape, Ph.Cand. Amst. Lectr.

Dutch
Boshoff, S. P. E., D.Phil. Amst., M.A. Prof.
Dekker, J., M.A. (D. and French) Lectr.

English
Norenius, Miss A. C., M.A. Lectr.

German
Schulze, H. G., M.A. Lectr.

History [Lectr.
v. d. Walt, A. J. H. J., M.A.

Mathematics and Applied Maths.
van Rooy, D. J., M.A. Sr. Lectr.

Physics
van Wageningen, G., Cand. Maths. and Phys. Amst. Prof.

Pedagogy [Prof.
van Heerden, J. S., M.A. Harv.
Coetzee, J. C., M.A., M.Ed. Prof.

Philosophy
van Rooy, J. C., M.A. Prof.
Stoker, H. G., M.A., D.Phil. Lectr.

Theology
du Toit, J. D., D.D. Amst. Prof.
du Plessis, J. A., B.A. Cape. Prof.
de Wet, C. J. H., D.D. Amst. Prof.

Zoology
Eiselen, G. T. S., M.Sc. Lectr.

GENERAL INFORMATION (v. also p. 477)

Founded in 1869 as the Literature and Science department of the Theological School of the Reformed Church of S. Africa, this institution became in April 1919 "Het Potchefstroom Universiteits Kollege voor Christelik Hoger Onderwijs," and was in 1921 admitted as a Constituent College of the Univ. of S. Africa under an Act (No. 25) of the Union.

THE YEAR 1924. *Benefactions*: Govt. grant, £7000; Municipality, £250; Reformed Church, £2000; Assoc. for Christian Higher educn., £350. *Death*: J. Kamp, Prof. of Dutch Literature. *Students*: Full-time, preparing for a first degree, 157, including 34 women; graduates, 8. Residing in college, 31. Occasional students, 3. *Degrees obtained*: B.A., 7; B.Sc., 1; M.A., 4 (2 women).

RHODES UNIVERSITY COLLEGE, GRAHAMSTOWN, C.P.

CHAIRMAN OF COUNCIL—THE BISHOP OF GRAHAMSTOWN.

MASTER AND CHAIRMAN OF SENATE—Sir J. ADAMSON, M.A., D.Litt.

REGISTRAR—.....

PROFESSORS, LECTURERS, ETC.

Accounting, Business Management, etc.
Williamson, J. W. M., C.A. Lectr.

Anatomy [Lectr.
Drury, E. G. D., B.S. Lond., D.P.H. Durh., M.D. Cape.

Art
Armstrong, F. W., A.R.C.A. Prof.
Greathead, Miss M. Asst.

Botany
..... Prof.
Britten, Miss L., B.A. Cape Lectr.

Chemistry and Metallurgy
Barker, W. F., Ph.D. Prof.
Page, R. A., M.A. Cape Lectr.
Smith, J. L. B., B.A. Cape, M.Sc. Stell., Ph.D. Cantab. Lectr.

Classics
Bowles, C. W., M.A. Camb. and Cape (Greek) Prof.
Smail, W. M., M.A. Ox. and Edin., B.A. Lond. (Latin) Prof.
Whiteley, S., M.A. Ox. Lectr.

Commerce
..... Sr. Lectr.
Williamson, J. W. M., C.A. Lectr.

Dutch
Dingemans, G. F., M.A. Edin. and Cape Prof.

Economics [Lectr.
Hall, R. L., B.A. Ox. and Cape

Education
The Master Prof.
Martinius, Miss M., B.A. Cape Lectr.
Hendrikz, Miss P., B.A. Head of Practising School.
Thompson, Miss M., B.A. Lectr.
3 Instrs.

English
Kidd, A. S., M.A. Camb., Manc., and Cape Prof.
Balmforth, Miss M., B.A. Ox. & Cape Town Lectr.

French
Bodmer, H. S. Prof.

Geology
Schwarz, E. H. L., A.R.C.S. Lond., F.G.S. Prof.

German and Dutch
Weehuizen, P. B., M.O. Hol. Prof.

History
Rousseau, I. J., B.A. Ox. Lectr.

Law
McKerron, G. G., M.A., LL.B. Edin. and Cape Lectr.

Mathematics, Pure and Applied
Williams, D., B.Sc. Lond. and Cape Prof.
Martin, J., M.A. Camb. and Cape Lectr.
Wood, A. H., M.A. Cape Lectr.

Music
Collingwood, W., B.A. Ox., A.R.C.O.

Philosophy
Lord, A. R., M.A Ox. Prof.
Ramsay, C. N. M., M.A Glas. Lectr.

Physics
Varder, R. W., M.A. Cape Prof.
Watson, S. W., B.A. Camb. and Cape Lectr.

Zoology [Prof.
Duerden, J. E., M.Sc. Cape, Ph.D. J. Hopk., A.R.C.S. Lond.

For "General Information" see p. 490.

THE YEAR 1924–25. *New Departments and Posts*: School of Art, taken over from Fine Arts' Assocn. The post of "Master" of the College was created, and was accepted by the late Director of Education for the Transvaal. *Resignations*: Prof. Sir G. E. Cory, appointed official historian to the Govt. of S. Africa; Prof. S. Schonland; Lt.-Col. H. Greener. *Students*: Full-time, 324 (including women—122); resident in college, 267 (w.—110); preparing for first degree, 291 (w.—116); graduate students, 33 (w.—6). Occasional, 12 (w.—4). School of Art, 58 (w.—57). Pursuing further studies in Oxford, 4; London, 2. *Degrees obtained*: B.A., 20 (w.—9); B.Sc., 11 (w.—2); M.Sc., 4; LL.B., 2.

TRANSVAAL UNIVERSITY COLLEGE, PRETORIA, TRANSVAAL

CHAIRMAN OF COUNCIL—H. P. VEALE, B.A., M.B., Ch.B.

VICE-CHAIRMAN—The Hon J. H. HOFMEYR, M.A.

RECTOR—Prof. N. M. HOOGENHOUT, M.A. Cape, Ph D. Strass.

REGISTRAR—Advocate A. A. ROBERTS, B.A., LL.B. Cape and Camb.

PROFESSORS AND LECTURERS

Accountancy
Barnes, S. R., F.S.A.A. Prof.
Petyt, A. S., R P.A. Lectr. (Auditing).

Agricultural Botany
Hector, J. M., B.Sc. Aberd. Prof.

Agricultural Chemistry
Ross, J. C., B.A. Cape, M.Sc., Ph.D. Illinois Prof.

Agricultural Engineering
van Tonder, A. J., B.A. Cape, M.Sc. Calif., A.C.G.I. Sr. Lectr.

Agronomy
Leppan, H. D., B.Sc. Tor. Prof.

Animal Husbandry
Bosman, A. M., B.Sc. Tor., *Dean* of the Faculty Prof.
van Rooyen, L. A., M.Sc. Cornell, B.Sc. Agr. Lectr. in Poultry.

Banking
Young, D., B.A. Lectr.

Bantu Studies
Lectrs. :
Bourquin, C. (Ethnology)
Schwellnuss, O. (Sasutho).
Rossouw, G., Ph.D. (Social Anthropology).
Uys, C. G., M.A. (Si-Zulu).

Bio-Chemistry
Green, H. H., D.Sc. Glas. Prof.
Mogg, A. O. D., M.A. Camb. Lectr. in Ecology.

Botany [Prof.
Bremekamp, C. E., Ph.D. Utrecht
Elbrecht, B., B.A. Lectr.
Wright, Miss K. M., B.Sc. Lond. Lectr.

Business Management [Lectr.
Ross, G. E. N., D.H. (Rotterdam)

Chemistry, v. also Phys.
Malherbe, D. F. du T., M.A., Ph.D. Halle, Dean of Faculty Prof.
Crous, A., M.Sc. Asst. Lectr.

Commerce, v. also Ac., Bus., Geog.
Arndt, E., B.A. Cape, M.A., Ph.D. Columbia
Prof. of *Economics* and E. Hist.

Dairying
Davel, H. B., B.Sc. Iowa Prof.

Dutch and Afrikaans
Le Roux, T. H., B.A. Cape, Litt.D. Leid. Prof.
Kritzinger, M. S. B., M.A. Lectr.

Economics, v. Comm.

Education
Hoogenhout, N. M., M.A. Cape, Ph.D. Stras. Prof.
Bosman, J. C., M.A. Harv.
Prof. (History and Principles of E.).

English
Wallis, J. P. R., M.A. Liv. Prof.
Zorn, P. W., B.A. Cape, M.A. Ox., LL.B., D.Litt. Hamb. Sr. Lectr.

Entomology [Prof.
Faure, J. C., M.A., B.Sc. Corn.
Janse, A. J., D.Sc.
Hon. Prof. (Systematic Ent.).

French and German
de Villiers, W. P., B.A. Cape, Ph. and Litt.D. Ghent Sr. Lectr.
Kuschke, G. H.-J., M.A. Witw. Jr. Lectr. (German).
Morgan, A., B.A. Witw. Jr. Lectr. (French).

Geography and Econ. Geog.
Plummer, F. E., B.A. Camb. Prof.

Geology
De Villiers, L. C., Ph.D. Freiburg, M.E. Freiberg Prof.
Scholtz, D., M.Sc. Stell. Lectr.

Greek
Reinink, H., Litt.D. Amst., *Dean* of Faculty Prof.

History
Fouché, L., B.A. Cape, Ph. et Litt.D. Ghent Prof.
Agar-Hamilton, J. A., M.A. Cape, B.A., B.Litt. Ox. Sr. Lectr.

Horticulture
Powell, H. Clark, B.Sc.Calif. Prof.

Latin
Boxwell, J., M.A. Prof.

Law, v. also Pol. Sc.
Duxbury, W. S., M.A. (Roman, Roman-Dutch, and Merc. L.) Actg. Prof.
Rissik, P. U., B.A. Cape and Ox. Lectr.
Neser, V., B.A. Cape and Ox. Lectr. (Crim. L.).
Dowling, W., B.A. Cape, B.C.L. Ox. Lectr.

Wessels, D., B.A. Cape, LL.B. Camb. Lectr.
Reitz, R., LL.D. Amst. Lectr.

Mathematics
du Toit, A. E., M.A. Cape Prof.
Duminy, J. P., M.A. Cape Tn. Lectr.
Brune, O., M.Sc. Stell. Jr. Lectr.

Mathematics, Applied
Sherwood, E. T. G., B.A. Cape, M.A. Camb. Prof.

Music
Connell, J., F.R.C.O. Prof.

Philosophy, v. also Pol. Sc.
Hugo, T. J., B.A. Cape, Ph.D. Gron. Sr. Lectr.
Rautenbach, C. H., M.A., B.D. Jr. Lectr.

Physical Chemistry [Prof.
Tromp, F. J., B.A. Camb., D.Sc.

Physics and Applied Maths.
Gundry, P. G., Ph.D. Gött., B.Sc. Lond., A.R.C.S., *Dean* of Faculty of Science Prof.
Voss, V., B.A. Cape, Ph.D. Johns H., M.Sc. Lectr.

Physiology
Steck, F. W., D.M.V. Berne Prof.

Political Science, Pub. Admn., and Const. Law
Brookes, E., M.A., D.Litt. (also Lectr. in Philos.) Prof., Dean of Fac. of Commerce and Publ. Adm.

Theology
Greyvenstein, J. H. J. A., B.A. Cape, Th.D. Utr. Prof.
Macmillan, E., M.A., B.D. Glas. Prof.
Engelbrecht, S. P., Th.D. Utr. Prof.

Veterinary Anatomy
Mettam, R. W., M.R.C.V.S. Prof.

Vet. Bacteriology
Robinson, E. M., D.M.V. Berne, M.R.C.V.S. Lectr.

Vet. Hygiene and Infectious Diseases
Du Toit, P. J., B.A. Cape, Ph.D. Zür., D.M.V. Berl. (Lectr. in *Embryol.*) Prof.
Curson, H. H., M.R.C.V.S. Lectr.
Veglia, F., D.V.M. Turin (Helminthology) Lectr.

Vet. Medicine
Viljoen, P. R., D.M.V. Berne, M.R.C.V.S. Prof.
Neser, C. P., D.Sc., M.R.C.V.S. Prof.

Vet. Pathology
de Kock, G. v. d. W., D.M.V. Berne, M.R.C.V.S. Prof.

Vet. Pharmacology [Lectr.
Fourie, P. J. J., M.R.C.V.S.

Veterinary Science
Henning, M. W., M.R.C.V.S. Prof.

Vet. Tropical Medicine
Theiler, Sir A., K.C.M.G., D.Sc. Cape, D.M.V. Berne, *Dean* of Faculty of Vet. Sc. Prof.

Vet. Surgery and Obstetrics
Quinlan, J. B., D.M.V. Hanover, M.R.C.V.S. Prof.

Zoology
Malan, D. E., M.A. Cape, Ph.D. Zür. Prof.
Malan, D. J., M.Sc. Asst. Lectr.

GENERAL INFORMATION (v. also pp. 466, 477)

In 1908 University Classes in Arts, Science and Law were established at Pretoria by the Transvaal Govt., and were placed under the control of the Council of the Transvaal Univ. College at Johannesburg, the constitution of that body being altered so as to give Pretoria equal representation. A separation took place in 1910, the Johannesburg section being reincorporated

as the South African School of Mines and Technology, whilst the Pretoria section retained the name of the Transvaal Univ. College. In 1917 was instituted a Faculty of Agriculture, financial provision for which (an endowment of £100,000) had been made by the last Parliament of the Transvaal in 1910. The following Faculties have since been established: 1918, Theology; 1919, Commerce and Public Administration; 1920, Veterinary Science; Music, 1923. The original College Buildings were erected and equipped at a cost of £50,000; those of the Faculty of Agric. at a cost of £100,000; those of the Faculty of Vet. Science involved an expenditure of £150,000. A new Science block was completed at the end of 1924 at a cost of £40,000.

COURSES are provided for all Degrees and Diplomas of the Univ. in Arts, Science, Agric., Vet. Sc., Law, Div., Music, and Commerce and Public Administration. FEE for full degree course, £17 : 5s. to £27 : 6s. p.a.

HOSTELS. 4 for men, including the Dutch and English Church Hostels, and 3 for women. Board and Residence, £60 p.a.

LIBRARY, 40,000. LABORATORIES. Bot., Chem., Entom., Geogr., Geol., Phys., Physiol., Zool., Agric. Bot., Agric. Chem., Agronomy, Vet. Anat. ASTRONOMICAL OBSERVATORY.

THE YEAR 1924–25. *New Buildings and Equipment*: Extra-mural block for students in Commerce and Public Administration in course of erection, to cost £13,000. New ladies' hostel with Domestic Science laboratories begun, to cost £17,000. *New Departments*: Banking, Bantu Studies, Physical Optics, Astronomy. *New Posts*: Rectorship of the College, Lect'ship in French. *Resignations*: J. E. Holloway, apptd. Director of Census, succeeded by E. Arndt, lectr. at Columbia; W. Pittman, apptd. Judge of Supreme Court; W. Fitzgerald, apptd. lectr. in Geog., Manchester Univ. *Deaths*: G. P. Rosset (French), June 25; P. Harding (Banking), July 25. *Professors absent on Study Leave*: Leppan (Agron.) at Christ Coll., Cambridge; Boxwell (Latin), London Univ.; Wallis (English), Liverpool Univ.; du Toit (Maths.), Paris Univ.; Malan (Zool.), Zürich Univ. *Degrees obtained* (1924): B.A., 40 (including women—6); B.Sc., 11 (w.—3); B.Sc.Agr., 10 (w.—3); B.V.Sc., 8; B.Com., 7; B.Econ., 4; M.A., 7; M.Sc., 2 (w.—1); LL.B., 1; Educ.Dipl., 21. *Students* (1925): Arts, 313; Educn., 17; Theol., 8; Law, 20; Medicine, 2; Vet. Sc., 43; Science, 103; Commerce, 152; Survey, 4; Agriculture, 51; Public Admin., 55; Bantu Studies, 2; Special, 39. Preparing for first degree, 679, including 136 women; part-time, 30 men, 7 women; graduate students, 41 men, 9 women; occasional, 40 men, 2 women; total, 808. Former students pursuing studies in Oxford, 2; London, 1; Trinidad, 1; U.S.A., 2. *Extension Work*: Professors and students (of Faculties of Agric. and Vet. Sc.) engaged on Extension Work throughout the year in connexion with Extension Trains, organized by the Union Department of Agric., touring South Africa. A short course in Cotton and Tobacco was organized by the College Dept. of Agronomy. Lectures open to the public on all subjects were organized throughout the year by Faculty Societies. A *Conference* of Govt. Agric. Experts was held under the auspices of the Faculty of Agric., which was in consultation throughout the first half-year with Dr. Webber, Director of the California Citrus Station, who had been invited to the country by the Govt.

UNIVERSITY OF STELLENBOSCH

CHANCELLOR—Prof. P. J. G. DE VOS, D.Litt.

VICE-CHANCELLOR—Prof. A. MOORREES, Litt.D. S.A.

PRESIDENT OF CONVOCATION—Prof. S. F. N. GIE, B.A., Ph.D. Berl.

CHAIRMAN OF SENATE—Prof. S. F. N. GIE, B.A., Ph.D. Berl.

REGISTRAR—D. J. KRIEL, B.A.

PROFESSORS, LECTURERS, ETC.

Agriculture [Prof.

Perold, A. I., Ph.D. Halle, B.A. (Œnology and Viticulture)

Neethling, J. H., M.Sc. Corn. (A. Botany) Prof.

Reinecke, C. S. H., B.S.A. Guelph (Fruit-culture) Prof.

Brain, C. K., M.A. Ohio, D.Sc. Birm. (Entomology) Prof.

Malherbe, I. de V., Ph.D. Mün., B.A. (A. Chem.) Prof.

Reimers, J. H. W., Landb. Eng., Wageningen (Animal Husbandry) Prof.

Van der Byl, P. A., M.A., D.Sc. (Plant Path.) Prof.

Marais, J. S., Ph.D. Illinois, B.A. (Agronomy) Lectr.

Van der Merwe, Ivy M., B.Sc. Manitoba (Domestic Science) Lectr.

Botany [Prof.

Nel, G. C., B.A., Ph.D. Berl.

Duthie, Miss A. V., M.A. Lectr.

Chemistry

van der Merwe, C. D., Ph.D. Halle, B.A. Prof.

van der Riet, B. de St. J., Ph.D. Halle, M.A. Prof.

du Toit, D. F., D.Chem. Leid., M.A. Prof.

Joubert, D. B., Ph.D. M.I.T., M.Sc. Lectr.

Joubert, J. M., M.Sc., Ph.D. M.I.T. Lectr.

Classics

van Braam, P., Litt.D. Utr., M.A. (Latin) Prof.

Edgar, C. S., B.A. Ox., M.A. Edin. (Greek) Prof.

Basson, J., Ph.D. Berl., M.A. (C. and Classical Philol.) Prof.

McCulla, J., M.A. R.U.I. Lectr.

Dutch and Afrikaans

Pienaar, E. C., Litt.D. Utrecht, B.A. (Dutch) Prof.

van Niekerk, Lydia, Litt.D. Amst., B.A. (Dutch) Prof.

Smith, J. J., B.A., Barr.-at-Law (Afrikaans) Prof.

Celliers, J. F. E. (Literature) Prof.

Economics

Grosskopf, J. F. W., Dr. Jur. Leid., M.A. Prof.

Education [Prof.

Cillie, G. G., Ph.D. Stras., B.A.

Cruse, H. P., B.A., Litt.D. Amst. Lectr. (History of E.).

Pauw, D. A. A., B.A. (Method) Prof.

Donald, M. M., M.A. Lectr.

Hofmeyr, Miss J. I., B.A. Lectr.

Stockenström, E. C., B.A. Lectr.

English

Notcutt, H. C., Ph.D. Lond. Prof.

Hopwood, D., B.A. Ox. Lectr.

Walpole, V., M.A. Sheff. Lectr.

Hurst, H. N., B.A. Ox. Lectr.

French

Franken, J. L. M., Litt.D Ghent, M.A. Lectr.

Geography
Serton, P., Litt.D. Utr. Prof.

Geology
Shand, S. J., Ph.D. Münst., D.Sc. St. And. Prof.
Krige, A. V., M.Sc. Lectr.

German [Prof.
Friedlaender, E., Ph.D. Stras.
Hoge, J., Ph.D. Stras. Lectr.

Germanic Philology [Prof.
Bouman, A. C., Litt.D. Utr.

Hebrew [Ag. Lectr.
du Plessis, J., D.Litt., B.A., B.D.

History [Prof.
Blommaert, W., Litt.D. Ghent.
le Roux, Miss M., B.A. Lectr.
Gie, S. F. N., Ph.D. Berl., B.A. (H. of S. Africa) Prof.

Law [Prof.
Bodenstein, H. D. J., Barr.-at-Law, LL.D. Leid. (Roman-Dutch L.)
Malherbe, W. M. R., Barr.-at-Law, LL.D. Leid. Prof.
van Themaat, H. V. L., Dr. Jur., Dr. Jur. Pol. Leiden Lectr.

Logic and Psychology Prof.
Wilcocks, R. W., Ph.D. Berl., B.A.

Mathematics
Mackenzie, A. H., M.A. Aberd. and Camb. Prof.
Stegmann, E. T., B.A., D.Sc. S.A. Prof.

Mathematics, Applied, and Physics
Morrison, J. T., M.A., B.Sc. Edin., F.R.S.E. Prof.
Malherbe, W. E., B.A., B.Sc. Edin. Prof.
Cilliers, C. A., Ph.D. Frankfürt, M.Sc. Stell. Lectr.
Harvey, S. C., B.A. Lectr.

Philosophy, Moral and Polit.
Brümmer, N. J., B.D. St. And., M.A. Prof.

Physiology
Battaerd, P., M.D. Leiden Prof.

Theology
Moorrees, A., Litt.D. (S.A.) Prof.
van Rooyen, E. E., Th.D. Amst., B.A. Prof.
du Plessis, J., B.A., B.D., D.Litt. Cape Town Prof.
Keet, B. B., Th.D. Amst., M.A. Prof.

Zoology
De Villiers, C. G. S., M.A., Ph.D. Zür. Prof.
Grobbelaar, C. S., M.A., Ph.D. Berl. Lectr.

GENERAL INFORMATION (v. also p. 466)

The Victoria College of Stellenbosch, established 1881, beginning with a single Department, that of Arts, was in 1916, partly owing to a bequest of £100,000 by the late Jan Marais, granted the status of a University by Act No. 13 of 1916. The University was formally opened on Feb. 28, 1920.

FACULTIES. Arts, Law, Education, Science, Theology, Agriculture, and Commerce.

DEGREE COURSES. B.A. (3 yrs.), B.Sc. (3 yrs.), B.Comm. (3 yrs.), B.Sc.Agric. (4 yrs.); M.A., M.Sc., M.Sc.Agric., M.Comm. (1 yr. post-grad.); B.Educ. (2 yrs. post-grad.); LL.B. (4 yrs. or combined with B.A., 5 yrs.); D.Sc., D.Phil., D.Litt., D.Comm. (2 yrs. after Master's degree); D.Sc.Agric. (1 yr. after M.Sc.Agric.); B.D. (3 yrs. post-grad.). Courses are also provided for the Secondary Teachers' Higher, Lower, and Primary Higher Certificates; also for certificates in Nature study and Commerce.

FEES. Registration, £2 : 5s. p.a. (incl. sport and fees payable to Students' Representative Council); Library, 5s. p.a. Tuition per semester for master's

or bachelor's degree, £10 (B.D., £5); Doctorate, £5 p.a. Laboratory per semester, £5 (max.). Examns.: B.A., B.Sc., B.Comm., B.Educ., £10; for master's degree, £5; Doctorate, £10; LL.B., £30; B.Sc.Agric., £20. Graduation, £2. Board and Residence, £44 p.a.

LIBRARY. 18,000 vols.

PUBLICATIONS. 1. *The Calendar*; 2. *Univ. Monthly* (by Students' Repr. Council); 3. *Annals*; 4. *The Univ. of Stellenbosch* (Historical Review).

SCHOLARSHIPS FOR GRADUATES. Generally tenable for 3 years, and open to holders of M.A., M.Sc., M.Sc.Agric., B.Educ., M.Comm., B.D., and LL.B. (with B.A.): Porter, Croll, Queen Victoria, Grey, Donald Currie, Union (each £150 p.a.), Hiddingh and Ebden (£200 p.a.), Maynard (£60 p.a.).

EXTENSION WORK. Evening lectures by members of Staff once a week.

THE YEAR 1925. Total *number of students*, 970, including 241 women. Full-time, 900 (women—223). Occasional, 70 (w.—18). Graduate students, 118. Resident in Univ. Hostels, 464 (w.—157). *Degrees conferred* (1924): D.Phil., 1; D.Sc., 1; M.A., 9; B.A., 67; M.Sc., 8; B.Sc., 27; B.Educ., 4; B.Sc.Agric., 5; LL.B., 2; B.D., 1.

Continued from p. 484—RHODES UNIVERSITY COLLEGE:

GENERAL INFORMATION (v. also pp. 466, 477)

In 1902 a movement was started for the institution of university education in the Eastern Province, and in 1904 the Rhodes Trustees established for the purpose an endowment of £50,000, which, together with a donation of £5000 from the De Beers Company and local subscriptions amounting to £10,000, was applied to the development of St. Andrew's College (founded 1855). The College Department (opened in 1878) was separated from its school, and incorporated as Rhodes Univ. Coll. in 1904. In 1906 it received £25,000 under the will of Alfred Beit.

LIBRARY, 13,000 vols. LABORATORIES: Applied Maths., Bot., Chem., Geog., Geol., Phys., Zool.

COURSES. B.A., B.Sc., M.A., M.Sc., LL.B., Law Certif., Surveying, Teachers' 1st Class and Lower Secondary Certifs., 1st yr. Medical, 1st B.Sc. in Agric., 1st Mining, 1st Engin., 1st and 2nd B.Com. FEE for full degree course, £21 p.a.

COLLEGE SCHOLARSHIPS open to graduates: two of £40, one of £50.

HOSTELS for 120 men ("College" and "Botha" Houses) and 100 women ("Oriel" and "Jameson" Houses), with dining halls, etc. BOARD AND RESIDENCE, £60 p.a. inclusive.

PUBLICATIONS. *Calendar* (Nov.); *The Rhodian* twice a year.

UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG, TRANSVAAL

CHANCELLOR—H.R.H. PRINCE ARTHUR OF CONNAUGHT.

VICE-CHANCELLOR—Sir ROBERT KOTZE, B.A.

PRESIDENT OF CONVOCATION—Prof. C. M. DRENNAN, M.A.

CHAIRMAN OF COUNCIL—Sir WM. DALRYMPLE, K.B.E.

PRINCIPAL—Sir WM. THOMSON, M.A., B.Sc., LL.D.

REGISTRAR—H. W. J. VAN DER BRUGGE, M.A., LL.B.

PROFESSORS, LECTURERS, ETC.

Accounting [Prof.
Findlay, J., C.A. Edin., F.S.A.A. Eng., I.A., R.P.A. Trans.
Dix, F., B.Com., A.S.A.A. Eng., R.P.A. Trans. Lectr.
Harkness, A. Lectr. in *Banking.*

Actuarial Science, v. Maths.

Anatomy
Dart, R. A., M.Sc. Queensland, M.B., Ch.M. Syd. Prof.
Laing, D. G., B.Sc., M.B., Ch.B. St. And. Sr. Lectr.
Macgregor, A. L., M.B. Edin. Lectr. (Clinical A.).
Edelstein, H. H., M.B. Edin. Hon. Demr.

Architecture
Pearse, G. E., A.R.I.B.A. Prof.
Furner, A. S., F.R.I.B.A. Sr. Lectr.

Bantu Studies
The Prof. of English Head of Dept.
Doke, C. M., M.A. S.A., Diploma Compar. Bantu, Lond., D.Litt. Sr. Lectr.
Hoernle, Mrs. A. W., B.A. Cape Research Fellow and Lectr. in Ethnology.

Botany
Moss, C. E., M.A. Camb., D.Sc. Manc., B.Sc. Leeds Prof.
Moss, Mrs. M., M.A. Well. Lectr.
Young, Miss E., M.Sc. S.A. Jr. Lectr.

Chemistry
Wilkinson, J. A., M.A. Camb., F.C.S. Lond. Prof.
Robertson, J. B., M.A., B.Sc., Ph.D. Edin., A.I.C. Sr. Lectr.
George, E., M.Sc. S A , A.I.C. Lectr.
Pelling, A. J , B.A. Lond., A.I.C. Lectr.

Chemistry, Organic [Prof.
Stephen, H., O.B.E., D.Sc. (formerly of Manchester Univ.)

Chemistry: Analysis and Research
Adam, H. R., B.Sc. Aberd., F.I.C.

Classics
Haarhoff, T. J., B A., B.Litt. Ox. Prof.
Wagner, A. I., B.A. Ox. and Cape Lectr.
Williams, Miss M. V., M.A. Camb., B.A. Cape Sr. Lectr.

Dutch and German [Prof.
Krige, J. D. A., Ph.D. Ghent, M.A. Cape (also Lectr. in German)
Le Roux, J. J., B.A. Cape, Litt.D. Utrecht Lectr.

Economics, Econ. Hist., and Statistics, v. also Hist.
Lehfeldt, R. A., B.A. Camb., D.Sc. Lond. Prof.

Education, v. also Philos.
Macgregor, W. R., M.A. Aberd. Prof.
van der Merwe, P. J., M.A. Lectr.

Electro-Technics
Randall, O. R., M.Sc., Ph. D. (late Birmingham Univ.) Prof.
Damant, E. L., B.Sc. Lond., M.Sc., A.M.I.E.E. Sr. Lectr.

Engineering, Mechanical
Orr, John, O.B.E., B.Sc. Glas., M.I.C.E., M.I.M.E., M.Am.S.C.E., M.Am.S.M.E. De Beers Prof.
Jensen, A. E., B.Sc. Lond. and S. Afr., A.M.I.Mech.E. Sr. Lectr.
Gimkewitz, F., B.Sc. S A. Sr Lectr.
Drysdale, J., A.M.I.E.S. Jr. Lectr.

Engineering, Civil
Sutton, W. G., B.A., B.Sc. (Cape Town) Prof.

English
Drennan, C. M., M.A. Camb. and Lond. Prof.
Lawrie, J. G., M.A. S.A. Lectr.

French and Romance
Maingard, L. F., M.A., D.Lit. Lond., L.e.D. Paris. Prof.
Mulligan, Mrs. A. Lectr.

Geography
Wellington, J. H., B A. Camb. and Lond. Prof.

Geology
Young, R. B., M.A. Glas., D.Sc. Edin. Prof.
Küpferburger, W., M.Sc. Stell. Lectr.
Janisch, Miss E. P., B.Sc. Jr. Lectr.

Hebrew [Prof.
Landau, J. L., Ph.D. Vien., M.A.

History
Macmillan, W. M., M.A. Ox. Prof.
Hodgson, Miss V. M. L., B.A. Ox. and Cape (also Lectr. in Econ. H.) Lectr.

Law
..... Prof.
Murray, J. C. Lectr
Schreiner, O. D., B.A Cape, M.A. Camb. Asst.
Ramsbottom, W. H., B.A. Cape, LL.B. Camb. Asst.
Coaker, N. E , B.L., LL.B. S.A. Asst.

Mathematics [Prof.
Dalton, J. P., M.A., D.Sc. St. And (also Lectr. in Actuarial Sc.)
Constançon, C., Dip. Ing. Zür. Sr. Lectr.
Kops, C. W., B.A. Cape (Asst. in Actuarial Sc.) Sr. Lectr.

Maths., Applied [Prof.
Le May, H., M.A., B Sc. Glas.

Metallurgy and Assaying
Stanley, G. H., A.R.S.M., F.I.C., M.I.M.E., M.I.M.M. Prof.
Millin, D. M., B.A. Cape, F.I.C. Sr. Lectr.

Mining and Surveying
Watermeyer, G. A., B.A. Cape, A.R.S.M. Prof.

Music
Kirby, P. R., M.A. Aberd., A.R.C.M. Prof.
Duggan, C. A. O. Lectr.
2 Instrs.

Philosophy
Hoernle, R. F. A., M.A., B.Sc. Ox. Prof.
MacCrone, I. D., M.A. Cape, B.A. Ox. (also Lectr. in *Educn.*) Lectr.

Physics
Paine, H. H., M.A. Camb., B.Sc. Lond. & Wales Prof.
Evans, G. T. R., B.Sc. Wales Sr. Lectr.

Jr. Lectrs. :
Gotsman, B., M.Sc Cape Town
Cooper, M. A., M.Sc. S.A.

Physiology
Cluver, E. H., B.A., D.M. Ox., B.A. Cape, D.P.H. Lond. O. Beit Prof.
Stammers, A. D., B.A. Camb. Sr. Lectr.
Dowds, J. H., M.Sc. Jr. Lectr.

Statistics, v. Economics

Zoology
Fantham, H. B., M.A. Camb., D.Sc. Lond. Prof.
Paterson, Miss N. F., M.Sc. Lectr.
Weinbrenn, Miss C., M.Sc. Jun. Lectr.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Ethics, Medical
Heberden, S., M.B., Ch.B. Lectr.

Fevers, Acute Infectious
Loeser, H. A., M.D. Zür. Lectr.

Forensic Medicine
Levin, J. J., M.B., Ch.B. Edin. (also (C) in Surg.) Sr. Lectr.

Gynæcology [Prof.
Grant, W. Gordon, M.D. Aberd.
Gibson, R. W., M.B., Ch.B. Camb. (C).

Medicine
Williamson, O. K., M.A., M.D. Camb., F.R.C.P. Lond. Prof.
Bensusan, A., M.D. Brux., M.R.C.S., L.R.C.P. (C).
Watt, A. H., M.B., C.M., F.R.C.S. Edin. (C).
Bloom, A., M.B., Ch.B. Edin., D.P.H. Lond. (C).
Braun, L. I., M.R.C.S., L.R.C.P. (C).
Block, I. J., M.B., Ch.B. Edin., F.R.F.P.S. Glas., F.R.C.S. Edin. (C).
Orenstein, A. J., M.D. Philad. Lectr. (Tropical Dis.).
Girdwood, R. L., M.D., Ch.B. Edin. (C).
Porter, Chas., M.D., Ch.B. (R.U.I.), D.P.H. Camb. Instr. (Vaccination).
Baumann, E. P., M.D., Ch.B. Edin., M.R.C.S., L.R.C.P. Lectr. (Med. Dis. of Children).
.....
Lectr. (*General Psychiatry*).
Heiman, H. L., B.A. Cape, M.B., B.S. Lond., M.R.C.P. Tutor.

Obstetrics
McGibbon, J., M.B., F.R.C.P. Edin. Prof.
Abelheim, A., M.D. Kharkoff (C).
Maxwell, W. H., M.A., M.B. Camb., M.R.C.S. Eng. (C).
Ryan, Miss R., M.B, B.Ch. (R.U.I.) Tutor.

Pathology and Bacteriology
Watkins Pitchford, W., M.D. Lond., D.P.H. Ox., F.R.C.S. Hon. Prof.
Becker, J. G., M.B. Glas., D.P.H., D.T.M. Liv. Sr. Lectr.
Pirie, J. H., B.Sc., M.D , F.R.C.P. Edin. Sr. Lectr.
Porter, Annie, D.Sc. Lond. Sr. Lectr. (Parasitology).

Pharmacology
Watt, J. M., M.B., Ch.B. Edin. Prof.
Brandwijk, Miss M. G. Jr. Lectr.
Crawford, J., M.P.S. (S.A.) Instr.

Public Health
Porter, Chas , M.D., Ch.B. (R.U.I.), D.P.H. Camb. Sr. Lectr.

Radiology [Lectr.
Steuart, W., M.R.C.S., L.R.C.P.

Surgery, v. also Forensic
Thomson, G. Ritchie, C.M.G., M.B., C.M. Edin. Prof.
Daly, R. M., M.B., Ch.B. Durh., F.R.C.S. Edin. Senior (C).
Mursell, H. Temple, M.B., Ch.M. Edin., M.R.C.S. Eng. Sr. (C).

(C) = Clinical Lecturer.

Brebner, J. W., M.B., Ch.B. Edin. Sr. (C).
Welchman, W., M.B., B.S. Lond. F.R.C.S. (C).
Mudd, F. B., M.R.C.S., L.R.C.P. Lectr. (Anæsth.).
Brinton, A. G., F.R.C.S. Edin., L.R.C.P. Lectr. (Dis. of the Eye).
Gluckmann, H., M.R.C.S., L.R.C.P. Lectr. (Venereal Dis.).
Maisels, I., M.B., Ch.B. Edin. (C).
Beyers, C. F., B.A. Cape, M.B., B.S. Lond., F.R.C.S. Eng. Lectr. (Surg. Appl. Anat.), Demr. (Op. Surg.) (C).
MacNab, J., M.D., C.M. Glas., F.R.C.S. Edin. Lectr. (Dis. of Ear, Nose, and Throat).
Ross, R. A., M.B., Ch.M. Edin., F.R.C.S. Eng. Lectr. (Surg. Dis. of Children).
Hon. Demrs. (Anæsth.):
Gordon, Mary, M.B., B.S. Durh.
Weinbrenn, B., M.B., Ch.B. Edin.
Hall, Greenwood, M.B., Ch.B. Durh.
Dauth, D. J, M.B., Ch.B. Edin. Clin. Tutor.
Venereal Diseases, v. Surgery

(C) = Clinical Lecturer.

GENERAL INFORMATION (v. also p. 466)

Telegraphic address—University, Johannesburg.

The TRANSVAAL TECHNICAL INSTITUTE, constituted in 1903, was opened in 1904 and took over at Johannesburg the work of the S. AFRICAN SCHOOL OF MINES, KIMBERLEY, which had been founded in 1896. In 1906 its name was changed to "TRANSVAAL UNIVERSITY COLLEGE," and in 1908 Arts and Science classes at Pretoria were placed under its control. This arrangement was terminated in 1910, when the Johannesburg part of the institution was incorporated under the name of the S. African School of Mines and Technology. Buildings, towards the cost of which the Council of Education, Witwatersrand, contributed £60,000 and Govt. £30,000, were opened in March 1909. In 1913 Commerce (Diploma) courses were established. In 1916 a Witwatersrand University Committee was formed in Johannesburg to promote the establishment of a fully equipped Univ. College financed by the State, as a step towards the formation of a University. In 1917 the School became one of the constituent colleges of the new federal Univ. of S. Africa. In the same year classes in Arts, Pure Science, and Medicine were inaugurated. In Sept. 1920 the institution became the "University College, Johannesburg." In 1921 the College was reincorporated as a University with effect from March 1, 1922. The students in 1916 and each of the following years up to 1922 numbered 77, 173, 191, 301, 635, 812, 983. This development was made possible partly by support from the public, including contributions by the Chamber of Mines (£50,000), Standard Bank of S.A., Nat. Bank of S.A., Central Mining and Investment Corporation, and De Beers Cons. Mines, Ltd. (£10,000 each), Sir Otto Beit (£8000), and many others, amounting in all, up to the end of 1922, to over £220,000. The Municipality provided a fine site (100 acres) at Milner Park, a mile from the centre of the town. Expenditure on buildings and lay-out up to Aug. 1925 amounted to £450,000. LIBRARIES: Seymour Memorial, 12,000 vols., and several departmental. MUSEUM with good Geol. collection.

FACULTIES: Arts, Sc., Comm., Engin., Law, Med.

DEGREE COURSES: B.A. or B.Sc., 3 (Hons., 4) yrs.; M.A. or M.Sc., 1 yr.;

B.Ed., 2 yrs. post-grad.; M.Ed. (special course and thesis after B.A. Honours or B.Ed.), B.Mus., LL.B. (post-grad.), B.Com., or B.Econ., 3 yrs.; B.Sc. (Eng.), 4 yrs.; B.Arch., B.D.S., 5 yrs.; M.Arch., M.B., B.Ch., 6 yrs. An alternative course for the B.Sc. in Mining and Metallurgy provides for employment in the mines of students in their 4th year.

OTHER COURSES: for Diplomas in Archit., Music, Bantu Studies, Public Health, Actuarial Maths.; for Teachers' Certifs., Law Certif., Civil Service Law examn., Land Surv. FEES from 12 gs. p.a. (Civil Service Law) to £35 (M.B.).

SCHOLARSHIPS open to Graduates: Chamber of Mines, £250; Union, 2 of £150 each for 3 yrs.; Ainsworth (Mod. Hist.) every 2 yrs., £150 p.a. for 2 yrs.; H. B. Webb Research Gift, £200.

RESIDENCE. Hostels for 150 men and 35 women. Fees, £60 p.a.

UNIV. EXTENSION. Public lectures at the Univ. fortnightly; W.E.A. Discussion circle; afternoon and evening courses for teachers and others in regular employment, who may by attending them qualify for B.A. degree.

PUBLICATIONS. *Calendar*; *Students' Magazine* (S.R.C.).

THE YEAR 1924–25

BENEFACTIONS AND GRANTS. Bannerman Bequest, £500, for the Departments of Mech. Engineering, Geog., and Commerce; Union Govt. Grant, £52,970 for current expenditure, and £82,450 for loan for building; Johannesburg Municipality Grant, £6000 for general purposes and £5000 for bursaries; other Reef Municipalities, £1400 for general purposes and £1080 for bursaries.

BUILDINGS for Departments of Pure Science and Appl. Maths. completed. Central Block (Arts and Administration) partially completed. Engineering Block nearing completion. Engineering Lab. commenced.

NEW DEPARTMENTS AND POSTS. Chairs of Law, Geography and Organic Chemistry established. Additional Lecturers in Pharmacology, Architecture, and History.

WITWATERSRAND TECHNICAL INSTITUTE established to take over the elementary technical evening classes for apprentices and others.

REGULATIONS for the Degree of B.D.S. published.

RESIGNATIONS. H. J. S. Heather (superannuation); R. W. M. Mettam, Prof. of Vet. Anatomy, to take up Chair at Pretoria; J. B. Clark, lectr. in Classics and History, now Inspector of Schools, N. Rhodesia; V. Rosenstein, Jr. Lectr. in Physics, to take up private practice as Barrister. DEATH: Prof. R. H. Charters.

SPECIAL DEVELOPMENT. Vacation Course in Mine Hygiene for Medical students and graduates, compound managers, mine officials, and others.

STUDENTS. Graduates, 47 (including women—23): full-time undergraduates, 913 (women—252); part-time, 126 (w.—48); other full-time courses, 107 (w.—46). Arts, 483; Law, 49; Medicine, 197; Dent., 14; Pure Sc., 139; Engin., 131; Commerce, 148; Survey, 4; Archit., 28; Residents in Univ. Hostels, 137 (w.—25).

HONORARY DEGREES. *LL.D.*—H.R.H. The Prince of Wales (June 23, 1925); Dr. Charles Porter.

GRADUATED IN 1925. D.Litt., 1; M.A., 3; B.A., 68 (women—38); M.Sc., 2 (w.—1); B.Sc., 20 (w.—8); M.B., Ch.B., 4; M.Sc. (Eng.), 1; B.Sc. (Eng.), 21; B.Comm., 3; LL.B., 1.

COLLEGE OF AGRICULTURE, MAURITIUS

PRINCIPAL AND CHAIRMAN OF ADVISORY BOARD—The Hon. H. A. TEMPANY, D.Sc.Lond , F.I C., F.C.S., Director of Agriculture.

REGISTRAR—M. KOENIG.

LECTURERS

Agronomy—The Principal and 2 others.

Biology and Entomology—W. H. Edwards, D.I.C., F.C.S., F.E.S., and 2 others.

Botany and Mycology—E. F. S. Shepherd, B.S.A. McGill.

Chemistry—N. Craig, M.Sc., and 2 others.

Physics—The Registrar.

Surveying and Agric. Engineering—G. LeRoy, B.Sc.Eng. Lond., A C.G.I.

Also Lecturers in Animal Husbandry, Book-keeping, Sugar Technology, and Veterinary Science.

The College is administered as an integral part of the Department of Agriculture of the Colony. The cost of the building (opened Jan. 1925) and equipment was £14,000. Experimental fields and farms cover 60 acres. Laboratories provide accommodation for research in Chemistry, Entomology, Botany, Mycology, and Sugar Technology. Athletic grounds are attached to the College.

A three-years' course leads to the Diploma of the College. Short courses in the inter-crop period are provided for estate employees and special courses for agricultural and sugar-house chemists. The examns. of the City and Guilds of London Institute in sugar technology are held at the College.

The College year begins in January.

Minimum age for admission, 17. Evidence of general education up to matriculation standard is required.

Tuition fee for British subjects not natives of Mauritius, £20 p.a.

THE HEBREW UNIVERSITY, JERUSALEM

CHAIRMAN OF THE BOARD OF GOVERNORS—JUDAH L. MAGNES.

TREASURER—NORMAN BENTWICH.

REGISTRAR—S. GINZBERG.

LIBRARIAN—HUGO BERGMANN.

This University (in mandated territory) was opened on April 1, 1925, by Lord Balfour, as a group of Research Institutes. It is provisionally registered under the Law of Societies of Palestine.

LIBRARY, 100,000 vols. Includes the Goldzieher collection of books and periodicals on Arabic and Oriental Literature. Publishes quarterly review *Kiryat Sefer*.

INSTITUTE OF JEWISH STUDIES (inaugurated Dec. 22, 1924). Chairman of Council—Chief Rabbi Dr. Hertz of London. Executive Officer—J. L. Magnes. Professors in 1924–25 : Margolis of Dropsie College, Philadelphia (Philology) ; Dr. Guttman of the Rabbinical Seminary, Breslau (Talmud) ; N. S. Klein, Rabbi of Novo Zamky (Palestine Research) ; Dr. I. N. Epstein of Berlin (Talmudic Philology), and several lecturers. The language of instruction is Hebrew. Number of regular students in 1924–25 was about 75. A section of Arabic Literature and Civilization is being organized in consultation with Prof. J. Horowitz of Frankfurt.

CHEMICAL INSTITUTE (opened in 1924). Director—Prof. Dr. A. Fodor (from Halle). Assts. in Dept. of General Chem.—M. Weizmann, Docteur ès Sciences (Grenoble) ; J. Jacobs, M.Sc. (Manchester) ; in Bio-Chemistry (Colloid and Physical)—Miss R. Rivlin, D.Sc. (Utrecht) ; Ing. A. Reifenberg (Berlin). 10 private and voluntary assts.

MICROBIOLOGICAL INSTITUTE (organized by the American Jewish Physicians Committee, established in 1921. President—Dr. Nathan Ratnoff). Provisional laboratory established in 1924, under S. Adler (M.D. Leeds).

An INSTITUTE OF AGRICULTURE AND NATURAL HISTORY is to be established in connexion with the Agric. Experiment Station founded by the Zionist Executive in 1922. Staff of the station : Directors—Prof. O. Warburg (Berlin), Ing. Vilkansky. 9 assts. in Chemistry, Pathology, Entomology, Extension Work, Rural Economics, Applied Zoology, Plant-breeding, Agronomy, Physiology.

UNIVERSITY OF MALTA

VISITOR—H.E. THE GOVERNOR OF MALTA.

PRESIDENT OF THE GENERAL COUNCIL AND RECTOR—Hon. Prof. T. ZAMMIT, C.M.G., M.D., Hon. D.Litt. Ox.

SECRETARY—A. F. SCIORTINO.

PROFESSORS, LECTURERS, ETC.

Anatomy and Histology
Busuttil, R., M.A., M.D. Prof.
Briffa, J., B.Sc., M.D. Asst. Prof.

Biology, v. Nat. Hist.

Chemistry
Sultana, A., M.D. Prof.
Borg, S., M.D. Demr. in Expl. Sc.

Engineering and Architecture
Galea, R. V., L.S. & A., M.L.A. (also Lectr. in Descr. Geom. and Arch. Drawing) Prof.

English Literature [Prof.
Fogarty, Owen J., B.A. N.U.I.

Italian Literature
Laurenza, V., D.Lit. Naples Prof.

Latin Literature
Martinelli, N., D.Lit. Pisa Prof.

Law
Vassallo, Most Rev. Can. E., Jur. Can. Doc. (Canon L.) Prof.
Mallia, C., B.Litt., LL.D., M.L.A. (Comml. L.) Prof.
Vassallo, E. C., M.A., LL.D. (Const. and Internat. L.) Prof.
Ganado, E., LL.D. (Civil L.) Prof.
Randon, L. A., M.A., LL.D. (Crim. & Science of L.) Prof.
Bartolo, A., B.Litt., LL.D., M.L.A. (Hist. of Legisln. in England and Malta) Prof.
Frendo, P. G., LL.D. (Fiscal Laws, Statistics and Admn.) Prof.

Logic and Philosophy
Cuschieri, Senator Very Rev. A., O.C. Prof.

Mathematics and Pract. Engin.
Nixon, W. F., B.Sc. Lond., A.R.C.Sc. Lond., Wh. Sch. Prof.

Mechanics, Applied, and Drawing
Gatt, J. L., L.S. and A. Prof.

Medicine and Surgery, v. *infra*

Natural History
Borg, John, M.A., M.D. Prof.

Philosophy, v. Logic

Physics
Agius, T., M.A., M.D. Prof.
Borg, S., M.D. Demr. in Expl. Sc.

Physiology and Pathology
Samut, R., M.B., C.M. Edin. Prof.
Vincenti, R., M.D. Asst. Prof.

Political Economy
Sultana, A., LL.D. Prof.

Theology
Formosa, Mgr. G., B.A., D.D., J.U.D. Prof. of Dogm. T.
Zammit, C., D.D. Prof. of Moral T.
Callus, Rev. D., O.P. Prof. in Holy Script. and Hebrew.

Medicine

Forensic M. and Toxicology
Ullo Xuereb, G. (v. Mental) Prof.

Hygiene and Preventive M.
Bernard, A. V., M.B.E., M.D., D.P.H. Prof.

Materia M., Pharmacy and Therap.
Cassar, I., M.D. Prof.

Medicine
Ferro, E. H., B.A., M.D. Prof.
Debono, S., M.D. Asst. Prof.

Mental Diseases
Ullo Xuereb, G., M.D. Prof.

Midwifery and Gynæcology
Debono, G., M.D. Prof.
Harding, H., M.D. Asst. Prof.

Ophthalmology
Preziosi, Cont. L., B.Sc., M.D., D.O. Ox. Prof.

Pathology, v. Physiology

Surgery
Cassar, S., M.D. Prof.
Attard, G., B.Sc., M.D. Asst. Prof.

GENERAL INFORMATION

Founded in 1769 by Grand-Master Fra Emmanuel Pinto de Fonçeca of the Order of St. John under the authority of Pope Clement XIV., the University is lodged in a building erected by the Jesuit Fathers in 1591–93 for a College, whilst its Medical Faculty originated in a School of Anatomy founded in 1674 by Grand-Master Nicola Cottoner in the Great Hospital of the Order, which accommodated 745 patients. The authorities of the University as reconstituted by a Govt. Statute of 1921 are the Visitor, the Rector, the General Council (consisting of the Rector, six Professors, and three members elected by Convocation), six Faculty Councils, and Convocation.

LIBRARY, 5000 vols. A public library maintained in connexion with the Univ. contains over 100,000 vols. and is rich in MSS. and rare editions of great historical interest. MUSEUMS: Nat. Hist. and Archæol. OBSERVATORY, full meteorol. equipment and seismograph. BOTANICAL GARDEN. HOSPITALS, available for Clinics: general (260 beds) and several special; Leper Asylum (100); lunatic (700); aged poor (800).

FACULTIES: Literature, Science, Engineering and Architecture, Theology, Law, Medicine.

MATRICULATION involves passing an examn. in 5 subjects, including English, Italian, Maths., and, except for Engineering courses, Latin; for Med. students proposing to register in England, 6 subjects, including also Hist.

DEGREES, ETC. B.A., B.Sc., B.E. and A., M.D., LL.D., D.D., B.L. Can. Diplomas of Notary Public, Legal Procurator, Pharmacist and Apothecary, Dental Surgeon, Midwife.

SCHOLARSHIPS FOR GRADUATES. £120, one each in Theol., Law, Engin., and Med. (Travelling Scholps.). £50, one each in Theol., Law, Med. One of £120 awarded every 6 years in the faculty of Med.

THE YEAR 1925

NUMBER OF STUDENTS. Faculty of Science, 26; Literature, 31.

THE UNIVERSITIES OF INDIA

UNIVERSITIES were first established in British India as a result of the great parliamentary inquiry into the condition of India which preceded the confirmation of the Company's Charter in 1853. It was resolved to create a properly articulated system of education from the Primary School to the Univ. The London Univ., at that time a purely examining body, which admitted to its tests only the students trained in affiliated institutions—the latest device of educational statesmanship—was taken as a model. "It had been suggested, in London, by conditions which resembled those of Bengal. . . . Its defects were not yet apparent, though it was to be profoundly modified by London itself four years later. It had the advantage of costing very little. It enabled all the existing collegiate institutions, whether Government or missionary, to be worked into the same scheme, and promised to provide a quite impartial mode of testing the qualifications of students for Government service. Above all, it gave freedom to the non-Government Colleges—all, at that date, mission colleges—to carry on their work in their own way, and offered them help from public funds for the secular side of their work" (*Report of the Calcutta Univ. Commission*, 1917–19). In pursuance of this policy, Univs. were founded in 1857 at Calcutta, Bombay, and Madras. The framers of the policy, while contemplating that the ordinary subjects of study should be dealt with by the Colleges, did not intend that the Univs. should have no teaching functions, but in point of fact they have until recently concerned themselves solely with examinations. In 1882 and 1887 the Univs. of the Panjab and Allahabad were established on similar lines. A Commission was appointed in 1902 to examine the working of the system, and the Univs. Act of 1904 was designed to give effect to its recommendations as to reorganization of the government of the Univs., their assumption of teaching functions, and more effective supervision by them of the Colleges as well as more exacting conditions of affiliation. Univ. Professorships, Readerships, and Lectureships have accordingly been constituted in the above-named Univs., but mainly for advanced (post-graduate) courses and, except in Calcutta, only on a very small scale. Benares (Hindu), Mysore, and Patna Univs. were established in 1916 and 1917. The Osmania Univ., Hyderabad, Deccan, was also established in 1917, though actual tuition began in Aug. 1919.

The foundation, structure, aims and efficiency in working of institutions for higher education in India have been subjected to exhaustive re-examination by the Calcutta Univ. Commission, 1917–19. In the Univ. of Calcutta itself but little progress has been made towards giving effect to the far-reaching and fundamental changes recommended by this body, but their recommendations have to a great extent determined the lines on which were established in 1920 and the two following years the unitary, teaching, and residential Univs. of Aligarh, Dacca, Delhi, Lucknow, Rangoon, and on which the Univ. of

Allahabad was reorganized in 1921. The Nagpur Univ. was established by legislation in 1923, and in the same year the Univ. of Madras was reorganized on lines somewhat similar to those of the Univ. of Allahabad. Recently the constitution of the Rangoon Univ. has been somewhat altered by an Act of the provincial legislature. A resolution, accepted by the Education Minister, in favour of the establishment of a Univ. at Agra was passed by the United Provinces Council in Jan. 1924. A bill was introduced in Aug. 1925 in the Madras Provincial Council to establish a Univ. for the Andhra (Telugu) districts of the Madras Presidency. The report of the Bombay Univ. Reform Committee (published 1925) recommends the establishment of a Univ. at Poona.

CONSTITUTION. (*a*) The Univs. of Calcutta, Bombay, and the Panjab are still governed by the constitution framed under the Act of 1904. The Senate, comprising the (official) Chancellor, the Vice-Chancellor, and Fellows, constitute the Body Corporate of the Univ., the executive government being vested in a Syndicate of from 9 to 17 members, including the Vice-Chancellor and Director(s) of Public Instruction, and members (largely College teachers) elected by the Senate or the Faculties. The constitution and abolition of Faculties rests with the Senate. The Academic Council recently instituted by the Panjab Univ. has been invested with important powers subject to the general control of the Senate; the revision of the Constitution of the Senate and the Syndicate is, at present, engaging the attention of the governing authorities. In its application to Calcutta the Act of 1904 is modified by Act VII. of 1921.

(*b*) The new Univs. have a constitution modelled generally on that recommended for Calcutta by the Calcutta Univ. Commission:—(1) A large body called the Court, on which are represented the chief interests of the community either by election or by nomination, and including a number of ex-officio members, makes statutes and makes recommendations on the financial accounts and the annual report submitted by the Executive Council; (2) the Executive Council of some 15-20 members, elected partly by the Court, partly by the Academic Council, and including ex-officio members, is the executive authority in regard to finance and University appointments, and exercises all residual powers; (3) the Academic Council, which consists almost entirely of University teachers, is responsible for the regulation and maintenance of standards of education and examination within the Univ., and for the initiation of all changes in academic matters. The executive officers of the new Univs. are, as under the older constitution, the Chancellor, the Vice-Chancellor, and the Registrar, but the Governor-General is now introduced as the Visitor or Lord Rector, with powers of inspection.

ADMISSION TO THE UNIVERSITIES. Most of the Indian Univs. admit students who have passed the Final Examn. of the High Schools, and 4 years are spent at a College affiliated to the Univ. before the student is qualified to sit for the Bachelor's Degree Examn., namely, 2 years before the Intermediate Examn. and 2 after. The Univs. of Allahabad, Aligarh, Dacca, Lucknow, and Patna regard the pre-Intermediate years

not as part of, but as preliminary to, University study. The Univ. of Mysore requires that a student shall, after obtaining the School-leaving Certificate, study for a year at a recognized Collegiate School and appear for the Entrance Examn.; successful candidates, admitted to the Univ. Courses of Study, can appear for the Bachelor's Degree Examn after 3 years.

Applications for AFFILIATION are submitted by the Syndicate, if satisfied as to the managing agency, teaching staff, provision for residence of students, equipment, financial resources, suitability of fees, etc., to Government. If granted, the courses in respect of which the College is affiliated are specified. Affiliated Colleges must comply with requisitions by the Syndicate for information, submit themselves to inspection under the Syndicate's orders, and take such action as may be ordered consequent upon such inspections. In Calcutta and Panjab Univs. affiliation questions are dealt with by the Senate.

TERMS. Univ. examns. are, with few exceptions, held between March and June. Admissions are made as a rule in June or July, though in many cases regular work does not commence till Sept. or Oct.

DEGREE COURSES. In *Arts and Science* a 2 yrs.' course leading to an Intermediate examn. is followed by a further 2 yrs.' course for the Degree. English is a compulsory subject, except in the B.Sc. course of Allahabad, Bombay, Calcutta, and Patna. Allahabad, Madras, and Panjab Univs. give Honours degrees (Allahabad in Science, Madras and Panjab in Arts and in Science) requiring an additional year of study.

Commerce. The B.Com. course covers ordinarily 2 yrs. (Mysore—3 yrs.) after passing the Intermediate examn. in Arts.

Law. The LL.B. (or B.L.) course covers 2 yrs. (Calc.—ordinarily 3 yrs.) after graduating in Arts or Science.

Medicine. The M.B. and B.S. course covers 5 yrs. (Bom.—4½ yrs., Calc.—6 yrs.), starting from the Intermediate examn. in Arts or Science (Calc.—in Science).

Teaching. The B.T. (All. and Mad.—L.T.) courses cover 1 yr. after graduating in Arts or Science. Calc. gives a L.T., obtainable by 2 yrs. of study after passing the Interm. examn. in Arts or Sc. Bombay requires either 3 yrs.' experience or 2 terms at a Training College after graduation, *plus* 1 yr.'s experience thereafter; Patna, 1 yr. of study 2 yrs. after passing the Interm. examn. in Arts or Science.

Engineering. For the B.E., Bombay gives a 3 yrs.', Calcutta, Madras and Patna a 4 yrs.', course.

HIGHER DEGREES. The M.A. or M.Sc. can be taken by bachelors of 2 yrs.' standing; the M.Sc. Mad. by B.Sc. (Hons.) of 1 yr.'s standing; the Ph.D. Mad. by B.A. (Hons.) or M.A. of 3 yrs.' standing; the D.Litt. of All. and Ph.D. of Calc. by M.A. of 3 yrs.' standing; the D.Lit. or D.Sc. of Panj. by M.A. or M.Sc. after 2 yrs. of further advanced study; the D.Sc. of All. by M.Sc. of 3 yrs.' standing; the D.Sc. of Calc. or Mad. by M.Sc. of 3 yrs.' standing. A degree of M.Com. has been instituted by Bombay.

The LL.M. of All. and Bom., the M.L. of Mad., and the LL.M. of Panj. may be taken by LL.B. or B.L. of 2 yrs.' standing, the M.L. of Calc. or Patna at any time after taking the B.L. The LL.D. (or D.L.) is open to LL.M. (or M.L.) after 5 yrs. (Calc. 1 yr.) of practice.

The M.D. (and in Calc. M.O.) can be taken by medical graduates after experience (Luck. and Panj. 4 yrs., Calc. and Mad. 3 yrs., Bom. 5 yrs.) in the practice of their profession or hospital practice (Luck. and Panj. 2 or 3 yrs., Mad. and Calc. 1 or 2 yrs., Bom. 1 or 2 yrs., in addition to professional practice). The M.S. qualifications are similar, but in Calcutta both hospl. and professional practice are required.

STATUS OF THE NEW UNIVERSITIES. The Univs. of Aligarh, Benares, Dacca, Delhi, and Patna have been incorporated by Acts of the Indian Legislature and of Lucknow and Rangoon by those of provincial legislatures. Their degrees and examns. are recognized by the Govt. of India to be equal in value to those of the older Univs. for the purpose of admission to public services.

Mysore and Osmania were established by local legislation in Indian States, and are not within the jurisdiction of the Govt. of India. The degrees of Mysore have been recognized by the Univs. of Bombay, Calcutta, the Panjab, and Madras, and most of the new Universities, and by the Govt. of India. See also p. 544. Osmania degrees have been recognized by the Govt. of India as equivalent to those of the Univs. established by law in India.

Professor Karve's scheme for an Indian Univ. for women with headquarters at Poona proposes to organize there and, through affiliated institutions, elsewhere, instruction through the Indian vernacular languages adapted to the special needs of women. It is on entirely independent lines, and seeks no recognition or aid from Govt.

NUMBER OF STUDENTS in March 1924 in the 262 Arts and Professional (including 80 Intermediate and 2nd Grade) Colleges was 74,520, including 1914 women.

RESIDENCE. One of the recommendations of the Commission of 1902 was that much closer attention should be given to the conditions under which students live and work, and very large sums have since been spent in providing hostels and otherwise improving the conditions of student life. In 1923–24 some 24,674 students (including 826 women) of Arts and Professional Colleges were accommodated in approved hostels or boarding-houses.

CONFERENCES. In April 1920 a Committee was formed for drafting an outline of the functions and constitution of an Assocn. of Indian Univs. The project was further advanced at the Congress of Universities of the British Empire at Oxford in July 1921, and at a Conference of Indian Universities held at Simla in May 1924. In accordance with a resolution passed by the Simla Conference, an INTER-UNIVERSITY BOARD has been formed with temporary headquarters at Mysore. Chairman of the Board—Nawab Hydar Nawaz Jung Bahadur (Mr. A. Hydari), B.A., Finance Member, Executive Council, H.E.H. Nizam's Government, and Member, Univ. Council, Osmania Univ., Hyderabad (Deccan);

Hon. Secretary—N. S. Subba Rao, M.A., Barr.-at-Law, Univ. Prof. of Economics, and Principal, Maharaja's College, Mysore Univ.

INDIAN STUDENTS AT THE HOME UNIVERSITIES. To advise and assist Indian students who come to the United Kingdom, an organization has been established by Government. This is under the control of the High Commissioner for India, and consists of an Indian Students Department at 42 Grosvenor Gardens, S.W.1, in charge of two Joint Secretaries to the High Commissioner for Indian Students' work, N. C. Sen, O.B.E., and Thomas Quayle, D.Lit., M.A., assisted by R. M J. Knaster, B.A., and V. I. Gaster, B.A. There is also under the control of the Department a hostel at 21 Cromwell Rd., S. Kensington, S.W.7, which serves as a centre and meeting-place for Indian students in London and for a temporary residence for new arrivals. (Fuller information can be obtained from the Warden, or from the Advisory Committees in India.) There are Local Advisers to Indian Students at the Universities of Manchester and Glasgow, and an official University Adviser at Edinburgh. The posts of Local Adviser to Indian students in Oxford and Cambridge were abolished in 1916, and were replaced by a Secretary to the Delegacy for Oriental Students at Oxford, and a Secretary to the Inter-Collegiate Indian Students Committee at Cambridge Advisory Committees or Information Bureaux have been established in various towns in India to supply students with information about British and Foreign Universities: Allahabad—Sec., T. N. Sapru, M.A., LL.B., Barr.-at-Law, The University; Ajmere—Sec., J. A. Richey, C.I.E., M.A., Superintendent of Education, Delhi and Ajmere Merwara, Delhi; Bombay—Sec., Prof. F. M. Dastur, M.A., Univ. Buildings; Calcutta—Sec., Prof. T. S. Sterling, M.B.E., M.A., I.E.S., 7 College Square; Dacca—Univ. Students Information Bureau, Sec., Dr. W. A. Jenkins, D.Sc., I.E.S.; Delhi—Sec., S. N. Mukarji, M.A., St. Stephen's College; Gauhati—Sec., J. Barooah, Barr.-at-Law; Lahore—Foreign Information Bureau, Sec., the Dean of Univ. Instruction; Madras—Sec., A. Davies, M.A., Barr.-at-Law, Principal, Law College; Mysore—Univ. Students Information Bureau, Sec., N. S. Subba Rao, M.A., Barr.-at-Law; Nagpur—Sec., S. R. Pandit, M.A., LL.B., Barr.-at-Law; and Patna—S. N. Sahay, B.Sc., B.A., Barr.-at-Law. The Hyderabad Government has a Scholarship Committee to regulate the grant of scholarships and give necessary information to students proceeding out of India, and has a special paid guardian for Hyderabad students (E. A. Seaton, Esq., Tyrrell's Wood, Leatherhead, Surrey) to look after and report about their progress whilst in Europe.

The Education Department at 42 Grosvenor Gardens comprises a bureau for the supply of information on educational matters, and the Jt. Secretaries act as guardians to Indian students when requested by the parents in India. *A Handbook for Indian Students—a Guide to the Facilities for University and Professional Studies and Training in the United Kingdom*, is published by the Department: a new edition was issued in July 1924, and a revised edition will be issued during 1926. An annual report on its work is also published, copies of which can be obtained from the office of the High Commissioner or through the Calcutta Agents for the sale of Government of India publications.

ALIGARH MUSLIM UNIVERSITY

LORD RECTOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—HER HIGHNESS NAWAB SULTAN JEHAN BEGUM OF BHOPAL, G.C.S.I., G.C.I E., C.I., G.B.E.

PRO-CHANCELLOR—HIS HIGHNESS AGA SIR SULTAN MOHAMED SHAH AGA KHAN, G C.S.I., G.C.I.E.

VICE-CHANCELLOR—SAHIBZADA AFTAB AHMAD KHAN, B.A. Camb., Barr.-at-Law.

PRO-VICE-CHANCELLOR—ZIA-UD-DIN AHMAD, C.I.E., M.A. Camb., Ph.D. Gött., D.Sc. Alld.

TREASURER—SHAIKH ABDULLAH.

REGISTRAR—S. SAJJAD HYDER, B.A.

LIBRARIAN—.....

TEACHING STAFF

Arabic

Tritton, A. S, M.A. Ox., D.Litt. Edin. Prof.*

1 Lectr.

Botany

Hasan, Syed Hadi Reader * (Bot. and Zool.).

Rafiq-Ahmad, M.Sc. Benares Lectr.

1 Demr.

Chemistry

Haider-Khan, M., B.A. Camb. and All., B.Sc. Lond. Prof.*

Mansuri, Q. Ali, M.A., Ph.D. Gött. Prof.

Bukhsh, A., M.A., B.Sc. All. Reader.*

1 Lectr., 1 Demr.

Economics

Hyder, L. K., B.A. All. and Camb., Ph.D. Heid. Prof.*

1 Lectr.

Education

Rahman, Habibur, M.A., L.T. All. Reader.*

2 Lectrs.

English

Dickinson, E. C., B.A. Ox. Prof.*

..... Prof.

Inamullah-Khan, M.A. Calc. Reader.

1 Lectr. and Tutor.

Geography

Dann, E. W., M.A. Ox. Prof.*

1 Lectr.

History and Polit. Sc.

Haleem, A. B. A., B A. Ox. Prof.*

Habib, Mohd., B.A. Ox. Prof.

2 Lectrs.

Law

Ali Naqi, Syed, B.A. Reader.*

Abul-Hasan, Barr.-at-Law Reader.

2 Lectrs.

* Chairman of Dept.

Mathematics
The Pro-Vice-Chancellor Prof.
Kureishy, A. M., M.A. All. Hon. Reader.*
1 Lectr.

Persian [Reader.*
Hamid-uddin-Khan, M.A. All.
Hadi-Hasan, Syed, B.A. Camb., B.Sc. Reader.
1 Lectr.

Philosophy
Sharif, M. M., B.A. Camb. Prof.*
Zafarul-Hasan, Syed, M.A. All, Ph.D. Erl. Prof.
1 Lectr.

Physics [Prof.
Mullick, D. N., B.A., D.Sc. Calc.
Murad, F. D., B.A., M.Sc. Panj. Reader.*
1 Lectr. and Tutor, 1 Demr.

Theology
..... Dean.*
Husain, S. U. M. Abbas (Shia) Prof.*
Ashraf, Suleiman (Sunni) Reader.

Sanskrit
Sarup Shastri, Pandit Ram Reader.

Urdu [Reader.*
Sajjad Hyder, Syed, B A.
1 Lectr.

Zoology, v. also Botany
Butt, Ataullah, M.D. Reader.*
Mohamed-Sheif, M.Sc. Lectr.

* Chairman of Dept.

GENERAL INFORMATION (v. also p. 500)

The Mahomedan Anglo-Oriental College, founded in 1875, became, under the Aligarh Muslim University Act of 1920, a unitary residential University, with Univ. School and Intermediate College attached as separate institutions. The Univ. receives Rs. 1,00,000 annually from the Govt. of India, Rs. 50,000 from the Local Govt., Rs. 36,000 from the Nizam of Hyderabad, and contributions from other Indian States. Although the governing body is composed of Mahomedans, and special attention is paid to Muslim Theology, it is open to all, without distinction of sex, race, creed, or class. In the grounds, comprising several square miles, are halls and hostels sufficient for the accommodation of all the students and some of the staff. LIBRARY, 21,000 vols. LABORATORIES: Physics and Chem.

The INTERMEDIATE COLLEGE prepares for the High School and Intermediate Examns., the latter being the admission examn. for the Univ. The Muslim UNIV. SCHOOL is a feeder to the Intermediate College and a practising school for the TRAINING COLLEGE.

COURSES. For students who have passed the Intermediate examn. of an Indian Univ.: two-year courses for the B.A. or B.Sc. Courses leading to M.A., M.Sc., and LL.B. degrees are also provided. FEES: for Tuition, Rs. 8 to Rs. 15 p.m.; Board and Residence about Rs. 20 p.m.

Numerous SCHOLARSHIPS FOR GRADUATES, enabling them to proceed to higher degrees, are awarded. One of Rs. 75 per month for research in Arabic, open to M.A. There is a loan fund for helping poor students.

THE YEAR 1924. Total number of Students in the Univ.—841, in the Intermediate College—754. *Degrees conferred*: B.A. and B.Sc., 185; M.A. and M.Sc., 59; LL.B., 58; B.T., 27. Among regular students in the Univ. and College were 200 Hindus. A tutorial system of teaching was inaugurated. A new department of Geography was created.

UNIVERSITY OF ALLAHABAD

VISITOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES OF AGRA AND OUDH.

VICE-CHANCELLOR AND CHAIRMAN OF THE COURT, THE ACADEMIC COUNCIL, AND THE COUNCIL OF ASSOCIATED COLLEGES—Mahamahopadhyaya GANGANATHA JHA, M.A., D.Litt.

REGISTRAR—J. M. DAVID, B.A.

LIBRARIAN—AMARNATHA JHA, M.A

PROFESSORS, LECTURERS, ETC.

Arabic and Persian [Reader.
Ali Nami, Syed Mohd., M.A.

Lectrs. :
Ali, Syed Ishaq, C.T., M.F.
Zubaid Ahmad, M. G., M.A.
Mohd Nainur Rahman, M A.
Majduddin, Syed, M.A.

Botany
Mitter, J. H., M.A., B.Sc. Panj. Reader.
..... Reader.
Saksena, R. K., M.Sc. Lectr
1 part-time teacher.
2 Demrs.

Chemistry
Dhar, N. R., M.Sc. Calc., D.Sc. Lond., I.E.S. Prof.
Deb, S. C., M.A. Reader.
Chatterji, K. P., M.Sc. Reader.
Taimini, I. N., M.Sc. Lectr.
5 Demrs.

Commerce and Economics
Burnett-Hurst, A. R., B.Sc. Lond., I.E.S. Prof.
Rudra, S. K., M.A. Camb. Reader.
Ghosh, M. K., M.A., B.Com. Lond. Reader.
Karwal, G. D., M.A. Panj. Lectr.
Bhatnagar, B. G., M.A. Lectr.
Jain, L. C., M.A., LL.B. Lectr.
Chowdhury, R. C., M.Sc. Lectr.
Asthana, N. P., M.A., LL.B. Hon. Teacher (Comml. Law).
2 part-time teachers.

Education
Simpson, A. A., M.A. Aberd. Prof.
Wall, W. G. P., M.Sc. Liv. Reader.

Lectrs. :
Bhattacharya, K. C., M.Sc. Alld., L.T.
Chatterji, F. B., B.A., L.T., LL.B.
Kishore, K., B.A., L.T.
Mukerji, D. N., B.Sc., L.T.
Roy, S. P., B.A., L.T.
Joshi, A. D., B.Sc., L.T.

English [Prof.
Dunn, S. G., M.A. Ox., I.E.S.
Jha, A. N., M.A. Reader.
Pande, S. A., M.A., LL.B. Reader.
Deb, S. C., M.A. Reader.
Ojha, Damri, M.A., LL.B. Lectr.
Gupta, L. D., M.A. Lectr.
Misra, S. N., M.A., LL.B. Lectr.
Sircar, K. M., M.A., M.Sc. Lectr.
Dastur, P. E., M.A. Lectr.
1 part-time teacher.

History
Khan, S. A., M.A., Litt.D. Prof.

Lloyd, C. P. W., M.A. Dub., I.E.S. Reader.
Prasad, Beni, M.A Reader.
Parmanand, M.A. Lectr.
Tripathi, R. P., M.A. Lectr.
Prasad, Ishwari, M.A., LL.B. Lectr.
Saxena, B. P., M.A. Lectr.
Prasad, Bisheshwar, M.A. Lectr.

Indian Vernaculars
Zamin Ali, Syed, M.A. Lectr. (Urdu).
Hafiz, M., M.A. Lectr.
Varma, D., M.A. Lectr. (Hindi).
Shukla, D. P., B.A. Lectr.

Law
Weir, J. C., B.A., LL.D. Dub., Barr.-at-Law Prof.
Chaudhri, S. C., M.A. Calc., LL.B. Reader.
Jang, M. U. S., B.A., LL.B., Barr.-at-Law Reader.
Mukerji, H. K., M.A., B.L. Lectr.

Mathematics
Banerji, A. C., M.Sc. Calc., B.A. Camb., I.E.S. Reader.
Prasad, Gorakh, D.Sc. Lectr.
Srivastava, P. L., M.A. Lectr.
Prasad, Badri Nath, M.A. Lectr.
Tiwari, S. G., M.A. Lectr.
Srivastava, P. L., M.A. Lectr.
Prasad, B. N., M.A. Lectr.

Philosophy
Burrell, P. S., M.A., I.E.S. Prof.
Randle, H. N., M.A. Ox , I.E.S. Reader.
Mukerji, A. C., M.A. Lectr.
Mukerji, N. C., M.A. Lectr.

Physics
Saha, M. N., D.Sc. Calc. Prof.
Bhargava, S. R., M.Sc. Reader.
Ghosh, R. N., M.Sc. Lectr.
3 Demrs., 1 part-time teacher.

Sanskrit
Acharya, P. K., M.A. Calc., Ph.D., D.Litt. Lond., I.E.S. Prof.
Saksena, B. R., M.A. Lectr.
Misra, Umesh, M.A. Lectr.
Chatterji, K. C., M.A. Lectr.
Shastri, R. M., M.A., M.O.L. Lectr.

Zoology [Reader.
Bhattacharya, D. R., M.Sc.
Mehra, H. R., D.Sc. Lectr.
Dass, B. K , M.Sc. Lectr.
Das, R. S., M.Sc. Lectr.
Datta, S. K., M.Sc. Lectr.
Varma, S. C., M.Sc. Lectr.
2 Demrs.

COLLEGES OF THE UNIVERSITY

EWING CHRISTIAN COLLEGE, Allahabad (American Presbyterian Mission). Principal, and Prof. of English—C. A. R. Janvier, M.A. Princeton, D.D. Prof. of English and Philos.—N. C. Mukerji, M.A. Calc. Other Profs.: H. T. Bose, M.A. Calc. (English and Philos.); N. B. Mitra, M.A. Calc. (Maths.); N. K. Sur, M.Sc. (Physics); C. D. Thompson, Jr., M.A. Col. (Econ.); Winfield Dudgeon, Ph.D. Chic. (Bot.); H. G. Kribs, Ph.D. Penn. (Zool.); Saraswati Prasad, M.A. (Econ.); B. B. Malvea, M.Sc. (Chem.); Anwarul Hak, M.A. (Persian); L. Aird, B.A. Durh. (Hist.). 12 other Profs. and Lectrs.

KAYASTHA PATHSHALA COLLEGE, Allahabad. Principal—Tara Chand, M.A., D.Phil. 7 tutors.

CROSTHWAITE GIRLS' COLLEGE, Allahabad. Lady Principal—Miss S. Duara, M.A. Teachers—Miss S. Duara, M.A.; Mrs. C. Gardner, B.A. Cornell; Miss Yumna S. Bhata, M.A.

GENERAL INFORMATION (v. also p. 500)

Founded in 1887, the Univ. concerned itself mainly with examinations, having no teaching staff (except that of its School of Law) until 1914. There-

after it established Chairs and Readerships, etc., for research work in Economics and Modern History for graduate students. In Jan. 1922 was passed an Act (which came into operation in July 1922) for the reorganization of the Univ. as a unitary, teaching, and residential institution, with control, however, over the quality and character of the teaching in " Associated " colleges.

LIBRARY, 45,000 vols. MUSEUM in connexion with Economics Dept.

FACULTIES. Arts, Science, Law, Commerce, and Economics.

DEGREES, ETC. B.A., M.A., D.Litt.; B.Sc., M.Sc., D.Sc.; LL.B., LL.M., LL.D.; L.T. (Teaching); B.Com.

The *courses* of study in the Univ. for the bachelor's degree cover 2 (B.Sc. Hons.—3) years, following upon an examn. of " Intermediate " standard, equivalent to the Higher School Examn. of the Univ. of Cambridge. The intermediate examns. of other Univs. incorporated by law in British India are recognized for this purpose.

For admission to courses leading to higher degrees the B.A. and B.Sc. degrees of any Univ. in British territory recognized by the law of the place in which it is situated are accepted as equivalent to Allahabad B.A. and B.Sc.

SCHOLARSHIPS FOR GRADUATES. 2 Emp. Vict. Research Readerships, Rs. 100 p.m. (3 yrs.), and 2 Kanta Prasad Research Scholarships for Hindus, Rs. 100 p.m. (2 yrs.), for M.Sc.; Research Scholarships of Rs. 100 each (1 yr.) in History (3), Economics (2), Sanskrit (1), Persian (1), Arabic (1), Philos. (1), English (1), Science (2); several of smaller amount. There is a SPECIAL FUND for enabling students and staff to proceed to *Foreign Countries* for higher studies.

RECOGNIZED HOSTELS. Ten at Allahabad and Agra.

PUBLICATIONS. *Calendar*, Rs. 5; *Univ. Examns. Prospectus*, Re. 0.8.0.; *Univ. Minutes*, Rs. 5; *University Magazine*, Rs. 2.8 p.a.; *University Studies*, Rs. 7.8; *Journal of Economics*, Rs. 12 p.a.; *Annual Report.*

ASSOCIATED COLLEGES

[M.A., etc., after name of College = teaching up to M.A., etc., standard.]

AGRA COLLEGE. M.A.; M.Sc.; LL.B. Principal and Prof. of *English Lit.*—T. Cuthbertson Jones, B.A. Lond. Other Profs.: *English*—C. Goswami, M.A. *Literature*—C. W. Wren, M.A., I.C.S. *Arabic and Persian*—Syed Mohd. Ibn. Ibrahim, M.A. *Biol.*—K. C. Mehta, Ph.D. Camb., M.Sc. Panj. *Chem.*—H. Krall, B.A., B.Sc. Dub.; B. L. Vaish, M.Sc. *Economics*—L. N. Ghosh, M.A. *History*—D. L. B. Riley, B.A. Ox. *Law*—Nilmani Dhar, B.A., B.L. Calc.; Joti Prasad, B.A., B.Sc., LL.B. *Maths.*—E. N. Banerji, M.A., B.Sc. *Physics*—S. P. Prasad, B.Sc. Calc., B.A. Camb.; S. K. Mukerji, M.Sc. *Sansk.*—K. L. Misra, M.A. *Zool.*—H. S. Seth, M.Sc., LL.B. 13 Lectrs. and 5 Demrs.

AGRA, *St. John's College.* M.A., in all subjects except Sanskrit and Arabic; B.Com.; M.Sc. in Maths., Physics, Botany, and Zoology. Under the general control of the Church Missionary Society. Admits non-Christians, but is especially for Christians. Principal and Prof. of *English*—A. W. Davies, M.A. Ox. Vice-Principal and Prof. of Philos. and Logic—T. D. Sully, B.A. Ox. Other Profs.: *English*—P. N. Nascar, M.A. Alld.; C. Mahajan, M.A.; G. L. H. Sumner, B.A. Camb. *Philos. and Logic*—H. Mark, B.A. Camb.; H. B. Mundle, M.A. Calc. *Maths.*—G. Chaturvedi, M.A., B.Sc.; Kunwar Bakadur, M.A. *History*—J. C. Taluqdar, M.A. Calc.; T. G. John, M.A. Madras.

Economics—J. T. Goodchild, M.A. Sheffield. *Persian*—A. H. Faridi, M.A., L.T.; M. Ali Ahmad-Khan. *Sansk.*—Pt. Ghanshyam Sharma. *Physics*—A. C. Datta, M.A. Calc.; K. C. Banerji, M.Sc. *Chem.*—K. C. Pandya, Ph.D. Lond.; N. M. Antani, M.A. Bom. *Zool.*—L. P. Mathur, M.Sc. Benares; C. John, M.A. Mad. *Botany*—F. H. E. Martin, B.A. Ox.; N. M. Mukerji, M.Sc. Calc. *Commerce*—L. Steele, F.I.A. Lond.; J. C. De, M.Com. Calc.; C. M. Gupta, M.A. Ohio. 8 Lectrs. and Demrs.

AJMER, *Govt. College.* B.A.; B.Sc. in Maths., Physics, and Chem. Principal—A. Miller, M.A., St. And. 10 Profs., etc.

BAREILLY COLLEGE. B.A. Principal—F. J. Fielden, M.A. Lond. and Camb. 9 other Teachers, 160 students.

CAWNPORE, *D.A.-V. College.* B.A. and Comml. Diploma. Principal—Diwan Chand, M.A. Profs.: *Engl.*—D. N. Chakravarti, M.A. 10 other Profs.

CAWNPORE, *Sanatan Dharma College of Commerce.* B.A. and B.Com. Principal—S. P. Bhargava, M.A., LL.B. 11 other Teachers.

GORAKHPUR, *St. Andrew's College.* B.A. Principal—A. C. Pelly, M.A. Camb. 11 other Profs.

GWALIOR, *Victoria College.* B.A.; B.Sc. Entirely supported by the State. Principal—H. F. Manley, M.A. Camb. 17 other Profs.

INDORE, *Christian College.* M.A. in Philos. Principal—R. A. King, M.A. Manit., B.D. Edin., D.D. Tor. Other Profs.: A. A. Scott, M.A. Tor.; H. W. Lyons, B.A. Tor. 8 other Profs., etc.

INDORE, *Holkar College.* B.A.; B.Sc. Maintained by the State. Principal—F. Gordon Pearce, B.A. Lond. 16 other Profs.

JAIPUR, *Maharaja's College.* M.A.; B.Sc. Maintained by the State. Principal (Dir. of Pub. Instruction)—N. K. Ray, B.A. Calc. 14 Profs.

JODHPUR, *Jaswant College.* B.A. Principal—Suraj Prakash, M.A. 7 Profs.

MEERUT COLLEGE. M.A.; B.Sc.; LL.B. Principal—Lt.-Col. T. F. O'Donnell, B.A. R.U.I. 23 Profs., etc.

THE YEAR 1924–25

BENEFACTIONS. Govt. aid, Rs. 6,94,000; endowment of Rs. 50,000 created by Lt. Kanta Prasad for chemical analysis of Indian medical plants (two scholarships of Rs. 100 p.m.). NEW BUILDINGS: Central Dispensary (Rs. 17,705); the Kayastha Pathshala Univ. College was in course of construction. NEW DEPARTMENTS: Urdu and Hindi. OTHER NEW DEVELOPMENTS: Medical examination of students was dealt with by resolution of Executive Council; a bill was published for criticism for establishment of an affiliating Univ. at Agra, so as to set the Univ. of Allahabad free to function as a unitary, teaching, and residential Univ.; steps were taken towards making military training compulsory for all male students and male teachers under 40, fit for it; the first volume of *University Studies* (record of research in the Univ.) was issued; a Committee was appointed for the co-ordination of the work and researches of the two Univs. of Allahabad and Lucknow. AFFILIATIONS: Bareilly College—Physics and Chemistry up to B.Sc. standard; S.D. College of Commerce—Economics up to M.A. standard, and English, History, Sanskrit, and Hindi up to B.A. standard.

RESIGNATIONS. A. R. Burnett-Hurst, Professor of Economics, and R. K.

Vaish, Lectr. in Currency and Banking (to join posts under the Govt. of India). DEATHS : J. A. Ewing, A. P. Sircar, Pandit V. V. Sovani.

DEGREES GRANTED. B.A., 349, including 3 women ; B.Sc., 148 (1 woman) ; M.A., 86 ; M.Sc., 35 ; D.Sc., 2 ; L.T., 61 ; B.Com., 15 ; LL.B., 195.

STUDENTS. Faculty of Arts, 522 (women—6) ; Science, 281 (w.—2) ; Law, 302 (w.—1) ; Commerce and Economics, 16. A student (M.A.) was granted by the Univ. a loan of Rs. 6000 to enable him to proceed to England for further study.

UNIV. EXTENSION. Many popular lectures were given by members of the staff and others.

BENARES HINDU UNIVERSITY

[No returns received since January 1925.]

LORD RECTOR—THE GOVERNOR-GENERAL OF INDIA, *ex officio*.

VISITOR—THE GOVERNOR OF THE UNITED PROVINCES, *ex officio*.

CHANCELLOR—THE MAHARAJAH OF BARODA.

PRO-CHANCELLOR—THE MAHARAJAH OF BIKANER.

VICE-CHANCELLOR—Pandit MADAN MOHAN MALAVIYA, B.A., LL.B.

PRO-VICE-CHANCELLOR AND SECRETARY OF THE COURT AND THE COUNCIL—PRINCIPAL A. B. DHRUVA, M.A., LL.B.

TREASURER—Hon. RAJA MOTI CHAND SAHEB, C.I.E.

REGISTRAR—Professor SYAMA CHARAN DE, M.A.

On April 1, 1916, a teaching and residential Hindu University was incorporated " for the purposes, among others, of making provision for imparting education, literary, artistic, and scientific, as well as agricultural, technical, commercial, and professional, of furthering the prosecution of original research, and of giving instruction in Hindu theology and religion, and of promoting the study of literature, art, philosophy, history, medicine, and science, and of imparting physical and moral training."

The University began to function on Oct. 1, 1917, when it became responsible for the maintenance of the Central Hindu College, Benares. Colleges of Oriental Learning and Theology, and a Training College were opened in July and Aug. 1918, a College of Engineering in 1919, a Department of Mining and Metallurgy and a Law College in 1923. The Univ.'s assets, including perpetual grants by the Govt. of India and by Ruling Chiefs of Rs. 1,00,000 and 75,000 respectively, are valued at Rs. 1,80,00,000.

Every member of the *Court*, the supreme governing body, must be a Hindu.* It includes representatives of benefactors, graduates, the Senate, the Jain and Sikh communities, Hindu religion and Sanskrit learning, the learned professions. Of the *Senate*, the academic body, at least three-fourths must be Hindus; it includes (1) the Chancellor, Pro-Chancellor, Vice-Chancellor, Pro-Vice-Chancellor, Univ. Profs., and Principals or Heads of Colleges as *ex-officio* members; (2) 5 members nominated by the Visitor; (3) elected members, including representatives of the Court, of Hindu religion and Sanskrit learning, and graduates. The *Council* and *Syndicate* are the executive bodies of the Court and Senate respectively.

LABORATORIES: Chem., Physics, Zool., Bot., Geol., Mining, and Metallurgy. The Engineering College laboratories include shop equipped for manufacturing machines, smith and paint shops, iron and brass foundry, and motor-car repair shop; a power-house is also attached to the College.

ADMISSION. The Univ. is, subject to regns., open to persons of all classes, creeds, and castes, but provision is made for religious instruction (which is

* An exception was made in the case of Dr. Annie Besant.

compulsory for Hindu students) and examination in the Hindu religion only. Women are eligible for admission to the Univ. and examns., degrees, etc.

FACULTIES. Oriental Learning, Theology, Arts, Science—Pure and Applied, Law.

DEGREES. B.A., M.A., D.Litt., B.Sc., B.Sc. in Appl. Sc. (Engin.), B.Sc. (Mining), B.Sc. (Metallurgy), M.Sc., D.Sc., Shastri, Shastracharya, Smritiratna, Smritisagara, Dharmashastri, Dharmacharya, LL.B., LL.M., LL.D., L.T. The admission qualification for Degree course (4 yrs) in Mining or in Metallurgy is Interm. Sc. examn. of an Indian Univ. or Board of Interm. Education, with Physics, Chem., and Maths

RESIDENCE. Students are required to live in a Univ. or College Hostel, or, subject to the approval of the Pro-Vice-Chancellor, with parents or guardians. There are 5 hostels accommodating 1200 students and 84 residences for members of the staff.

SCHOLARSHIPS. 76 for Arts and Science students of merit, 20 for Teachers' Training College. Numerous other College Scholps.

DEGREES CONFERRED IN 1924. B.A., 101; M.A., 12; B.Sc., 38; M.Sc., 12; B.E., 12; L.T., 39; Shastri, 11; Smritiratna, 1; Shastracharya, 3.

COLLEGES MAINTAINED BY THE UNIVERSITY

CENTRAL HINDU COLLEGE. Principal (Univ. Prof. of Sansk.)—A. B. Dhruva, M.A., LL.B. Honorary Univ. Profs.: Sir P. C. Roy, Kt., C.I.E., D.Sc. (Chem.); Nil Ratan Dhar, M.A., D.Sc. (Phys. Chem.); C. V. Raman, M.A. (Phys.); B. Keightley, M.A. (Philos.); P. K. Telang, M.A., LL.B. (Hist.); N. C. Nag, M.A., F.I.C. (Chem.); V. G. Kale, M.A. (Econ.). Others: H. R. Mehra, Ph.D. (Zoology); K. K. Mathur, B.Sc. (Geol.); R. S. Inamdar, B.A. Camb. (Biol.). S. S. Bhatnagar, D.Sc. Lectrs.: *Biol.*—N. K. Tewari, M.Sc.; Y. Bharadwaj, M.Sc.; K. R. Mehta, M.Sc.; Chandrabal, B.Sc. *Chem.*—M. B. Rane, M.A.; S. K. Basu, D.Sc.; N. N. Godbole, M.A., B.Sc. (on leave); Dongar Singh; P. S. Varma, M.Sc.; D. N. Banerji, M.Sc.; P. N. Roy, M.Sc.; A. T. Mazumdar, M.Sc.; K. C. Banerji, M.Sc. *Econ.*—Gurmukh Singh, M.Sc.; G. C. Varma, M.A. *Engl.*—P. Seshadri, M.A.; K. Prasad, M.A., Barr.-at-Law; M. M. Desai, M.A.; J. S. Yajnic, M.A., LL.B.; S. N. Lal, M.A. *Hist.*—K. C. Chatterji, M.A.; S. N. Bhattacharya, M.A.; G. P. Mehta, M.A.; J. N. Prasad, M.A. *Maths.*—P. Prasad, M.A., B.Sc.; S. Pande, M.Sc.; Gorakh Prasad, M.Sc.; D. N. Sen, B.A. Camb. *Pers.*—Mirza M. M. Husain. *Philos.*—P. B. Adhikari, M.A.; S. K. Maitra, Ph.D.; I. Tewari, M.A.; B. L. Atreya, M.A. *Phys.*—P. K. Dutt, M.A.; N. K. Sethi, D.Sc.; U. A. Asrani, M.Sc.; N. K. Pande, B.Sc.; C. M. Sogani, M.Sc.; P. C. Ghose, M.Sc.; K. L. Tewari, B.Sc. *Religion*—P. N. Patankar, M.A. (also in Marathi); H. R. Pande, B.A. *Sansk.*—N. Bhattacharya, M.A.; Baldeva Upadhyaya; B. Nath, M.A. *Hindi*—S. Das, B.A., and 2 others. *Bengali*—Harihar-Shastri. *See corrections on next page.*

COLLEGES OF ORIENTAL LEARNING AND THEOLOGY. Principals: O. L.—Maha. Pandit Pramathanatha Tarkabhusana; Theol.—Pandit Prabhu Datta Agnihotri. 17 other Profs.

TEACHERS' TRAINING COLLEGE. Principal, Pandit C. M. Sukul, M.A., L.T, 3 Assts.

ENGINEERING COLLEGE. Principal and Prof. of Mech. E.—C. A. King,

B.Sc., A.R.C.Sc. Other Profs.: L. D. Couselant, B.Sc.; B. C. Chatterji, B.A., B.Sc., B.L., A.M.I.E.E.; R. S. Jain, B.Sc., A.M.I.E.E.; R. D. Gulatti, B.Sc. 8 Asst. Profs. and a Demr. Arrangements have been made for holding at the College, examns. of the City and Guilds of London Institute.

DEPARTMENT OF MINING AND METALLURGY. Head of Dept. and Univ. Prof. of Mining and Metallurgy—N. P. Gandhi, M.A., B.Sc., A.R.S.M., D.I.C., F.G.S., A.I.M.M.

LAW COLLEGE. Hon. Profs.: Sir Tej Bahadur Sapru, M.A., LL.D., K.C.S.I.; M. L. Agarwala, B.Sc., LL.D.; K. N. Katju, M.A., LL.D.; A. P. Dube, B.C.L.; Munshi M. Prasad, M.A., LL.B.; P. N. Sapru, M.A., LL.B., Barr.-at-Law; Shankar Saran, B.A. Ox., Barr.-at-Law; A. N. Sanyal, B.A., LL.B. Lond.; U. S. Bajpai; Syed Agha Haidar; P. L. Banerji; S. N. Sen; Wali Ullah, M.A., B.C.L., LL.D.

Corrections received after going to press.

CENTRAL HINDU COLLEGE—Add: *Biol.*—Bholanath Singh, M.Sc.; T. D. Pande; K. N. Gupta, M.Sc.; R. C. Saksena, M.Sc. *Chem.*—S. Prasad, M.Sc. *Econ.*—N. J. Shah, Ph.D.; B. L. Sahni, M.A. *Hist.*—K. Bhattacharya, M.A.; A. S. Altekar, M.A., LL.B.; S. V. Pahanhekar, M.A. Ox. *Hindi.*—A. S. Upadhyaya. *Urdu*—Mahesh Prasad.

UNIVERSITY OF BOMBAY

CHANCELLOR—THE GOVERNOR OF BOMBAY.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—Sir CHIMANLAL H. SETALVAD, K.C.I.E., B.A., LL.D., M.L.A.

REGISTRAR—KHAN BAHADUR FARDUNJI M. DASTUR, M.A.

GENERAL INFORMATION (v. also p. 500)

Founded in 1857, the Univ. has concerned itself mainly with examinations, and maintained no teaching staff until 1913. Since then it has provided annually lectures for post-graduate students in History, Economics, Sociology, Sanskrit, and Mathematics. In 1919 it established a School of Economics and Sociology for research in these subjects. Extensions to University buildings, costing Rs. 8,13,000, were completed in 1923.

LIBRARY (established 1864, owing to Premchund Roychund Benefaction, Rs. 4,00,000), 30,000 vols., including Fawcett Collection (Econ.).

FACULTIES. Arts, Science (including Agric. and Engin.), Law, Medicine.

DEGREES. B.A., M.A.; B.Sc., M.Sc.; B.Com., M.Com.; LL.B., LL.M.; M.B., B.S.; B.Hy., M.D., D.Hy., M.S.; B.Ag., M.Ag.; B.E. (Civ., Mech.), M.C.E.

RECOGNITION of examns. of other Univs.; Interm. Arts and Sc. examns. of other Indian Univs. and London.

FEES for Univ. post-grad. courses, Rs. 10 per term.

RESIDENCE. Board and lodging at Colleges generally from Rs. 40 to Rs. 70 p.m.

SCHOLARSHIPS FOR GRADUATES. In Sanskrit, Bhugwandass Purshotundass, Rs. 720; Law, Sir Mangaldas Nathubai, Rs. 1000 p.a. for 3 yrs.; Travelling Fellowship, Rs. 700 p.a. for 3 yrs. for Hindus; Technical educn. in England for Hindus. Rs. 2000 p.a. for 3 yrs.; Springer Research Scholp. Lectureships: Wilson Philological, Rs. 750 (6 cold weather lectures); Bhagranlal Indraji, Rs. 1000 (6 lectures on Indian Epig., etc.); Bhimrao Ramrao Research Scholp., Rs. 2400 p.a. for 3 years.

Sir Currimbhoy Ebrahim endowment (3½ p c. Govt. securities, nominal value, Rs. 10,00,000) for scholarships by way of advances (repayable) to Mahomedan students going to foreign countries for higher studies in Medicine, Philology, Ancient History, Arabic, Architecture, Town-planning, and Technological and Industrial subjects and for the superior services: Rs. 3600 p.a. for 3 yrs.

INSPECTION OF SCHOOLS applying for recognition for purposes of the Matriculation examn. is arranged for by the School Leaving Examn. Board.

PUBLICATION. *Calendar* (March); vol. i. Rs. 6, vol. ii. (examn. pp.) Rs. 4.

UNIVERSITY SCHOOL OF ECONOMICS & SOCIOLOGY

Prof. of Economics—K. T. Shah, B.A., B.Sc. Lond. Asst. Prof.—C. N. Vakil, M.A., M.Sc. Lond.

Readers in Sociology—G. S. Ghurye, M.A., Ph.D. Camb.; N. A. Thoothi, D.Phil. Ox., B.A.

AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES

AHMEDABAD, *Gujarat College* (Govt.). In Arts; in Science for B.Sc. Principal—H. Hamill, B.A. Belfast. Profs.: *Botany*—Y. D. Thanavala, M.A. *Chem.*—D. D. Kanga, M.A. *Engl. and Logic*—B. N. Seal, B.A. Camb., absent on deputation, J. S. Commissariat, M.A., LL.B., acting; F. C. Davar, M.A., LL.B. *French*—P. L. Charlier, B.A. *Gujarati*—K. H. Dhruva, B.A. *Hist.*—M. S. Commissariat, M.A.; S. G. Deshpande. *Maths.*—V. M. Gaitonde, M.A. *Persian*—M. E. Namazi. *Physics*—V. B. Divatia, B.A. Camb., M.A. *Sansk.*—K. V. Abhyankar, M.A. *Zoology*—J. J. Asana. 10 other Asst. Lectrs.

BARODA, *State College.* In Arts; in Science for B.Sc. Principal—A. B. Clarke, B.A. Camb. Profs.: *Biol.*—S. V. Shevde, B.Sc. *Chem.*—K. G. Naik, M.A., D.Sc. Lond. *Engl.*—A. X. Soares, M.A., LL.B.; C. V. Joshi, M.A. *Hist. and Pol. Econ.*—J. M. Mehta, M.A. Ox., Barr.-at-Law. *Logic and Mor. Philos.*—A. K. Trivedi, M.A., LL.B. *Maths.*—Gajanan G. Pendse, M.A.; B. Sengupta, M.A. Calc., B.L. *Pers.*—Syed Nawab Ali, M.A. *Phys.*—S. G. Burrow, B.Sc. Lond. *Sansk.*—Bhasker R. Arte, M.A. 9 other Lectrs., etc.

BHAVNAGAR, *Samaldas State College.* In B.A. courses. Principal, and Prof. of *Engl.* & *Hist.*—T. K. Shahani, M.A. 9 other Profs., 1 Lectr.

BOMBAY, *Elphinstone Coll.* (Govt.). In Arts; in Science for B.Sc. Principal, and Prof. of *Engl. Lit.*—A. L. Covernton, M.A. Ox. Other Profs.: *Engl.*—F. Correia Afonso, M.A. *French*—V. G. Rao, B.A. Camb. *Hist. and Pol. Econ.*—S. G. Panandikar, M.A., Ph.D. Lond.; A. C. Farran, B.A. Dublin (on deputation), R. P. Patwardhan, B.A. Ox., acting. *Logic and Mor. Philos.*—S. G. Sathe, M.A. *Maths.*—K. R. Gunjikar, M.A. Camb.; D. P. Patravali, B.A. Camb. *Pers.*—A. K. S. Shaikh, M.A. *Sansk.*—A. B. Gajendragadkar, M.A.; A. N. Meldrum, D.Sc. Aberd., Principal & Prof. of *Chem. Chem.*—Mata Prasad, D.Sc. *Physics*—G. R. Paranjpe, M.Sc. *Botany*—S. L. Ajrekur, B.A. Camb. *Zoology*—P. R. Awati, B.A. Camb. 18 other Lectrs., etc.

BOMBAY, *Grant Medical College* (Govt.). In Med. and in B.Sc. courses. Dean of the College—Capt. S. L. Bhatia, M.A., M.D. Camb., I.M.S. Other Profs.: *Anat.*—Y. G. Nadgir, M.S. *Bact.*—P. A. Dalal, L.M. & S., D.T.M. & H. Camb. *Med. Jurisprudence*—W. Nunan, M.D. Dub. *Med.*—Major S. S. Vazifdar, M.R.C.P.L., I.M.S. *Mat. Med. and Pharmacy*—A. K. Contractor, M.D. Lond., M.R.C.P.L. *Midw. and Dis. of Women and Children*—Lt.-Col. A. F. Hamilton, M.B. Lond., F.R.C.S., I.M.S. *Surg.*—Lt.-Col. T. S. Novis, F.R.C.S., I.M.S. *Ophth.*—J. N. Duggan, L.M. & S., D.O. Ox. *Phys.*—J. A. D'Souza, B.A., L.M., and S. *Physiol., Histol., and Hygiene*—The Dean. *Operative Surg.*—A. K. Dalal, F.R.C.S. *Path.*—V. R. Khanotkar, M.D. Lond. *Skin Dis.*—C. Fernandez, M.D. *Laryng., etc.*—S. H. Modi, F.R.C.S. *Anæsth.*—J. R. Jagose, L.M.S., D.T.M. Liv. *Elec.-Therap.*—P. M. Desai, M.R.C.S., L.R.C.P., D.M.R.E.

BOMBAY, *Government Law School.* In Law. Principal—J. S. Khergamvala, LL.D. Lond., B.A., LL.M., Barr.-at-Law. Other Profs.: P. K. Pendse, M.A., LL.M.; D. G. Dalvi, M.A., LL.B.; M. K. Mehta, B.A., LL.B.; V. S. Bhandarkar, M.A., LL.B.; M. Y. Haindaday, B.A., LL.B.; S. V. Palekar, B.A., LL.B.; R. B. Vellani, Barr.-at-Law.

BOMBAY, *St. Xavier's College* (S.J.). In Arts for B.A. and M.A.; in Science for B.Sc. and M.Sc. Principal, and Prof. of *French*—J. Dühr, Ph.D., D.D. Other Profs.: *Botany*—E. Blatter, Ph.D. *Biol.*—J. P. Mullan, M.A., and

3 others. *Chem.*—J. F. Caius, F. Sacasa, and 4 others. *Engl. Lit.*—J. Fell, and 2 others. *French Lit.*—W. A. Phillips, O.A., and another. *Geology*—A. S. Kalapesi, B.A., B.Sc. *Hebrew*—E. M. Ezekiel, B.A., LL.B. *Hist.*—H. Heras, A. C. Fernandez, M.A., and 2 others. *Latin*—M. F. Collaco, M.A., LL.B. *Logic and Philos.*—M. Sola, M.A., Ph.D. *Maths.*—H. Rafael, K. G. Datar, M.A., LL.B., and another. *Persian and Arabic*—Syed M. S. Riza. *Physics*—A. Steichen, Ph.D., and 4 others. *Sansk. and Indian Philosophy*—R. Zimmermann, Ph.D. *Sansk.*—K. M. Shembavnekar, M.A.

BOMBAY, *Wilson College* (U.F. Church of Scotland). In Arts; in Science for M.Sc. Principal, and Professor of *Philosophy*—J. McKenzie, M.A. Aberd. Other Profs.: *Biol.*—Vinayak N. Hate, B.Sc. *Chem.*—A. R. Normand, M.A., B.Sc., Ph.D. Edin.; A. E. Walden, B.Sc. Lond. *Econ.*—J. Kellock, M.A. *Engl. Lit.*—E. A. Parker, M.A. Birm., Ph.D. Gratz; J. Mackintosh, M.A. Edin. *French*—H. M. Lambert, B.A. Camb. *Hist.*—R. Strachan, M.A., B.D. Aberd. *Maths.*—J. McLean, M.A., B.Sc. Aberd.; R. D. Karve, M.A. *Pers.*—M. Ahmed, M.A. Calc. *Philos. and Hist.*—P. A. Wadia, M.A. *Phys.*—A. D. Renwick, M.A., B.Sc. Glas.; D. B. Naik, M.A., B.Sc., LL.B. *Sansk.*—Hari D. Velankar, M.A. 15 other Teachers.

BOMBAY, *Cama and Allbless Hospitals.* In Midwifery courses for the M.D.

BOMBAY, *Gokuldas Tejpal Hospital.* For post-graduation study for M.D. and M.S.

BOMBAY, *Sydenham College of Commerce and Economics* (Govt.). In Arts for B.Com. Principal, and Prof. of *Currency and Banking*—M. L. Tannan, B.Com. Birm., Barr.-at-Law, I.E.S. Other Profs.: *Engl. and Cotton Industry* M. J. Antia, M.A., LL.B. Camb. *Econ.*—R. M. Joshi, M.A., LL.B., B.Sc. Lond. *Statistics*—H. L. Kaji, M.A., B.Sc. *Accounting and Auditing*—S. S. Engineer, B.A., F.S.A.A. 5 other Teachers.

BOMBAY, *Government Secondary Training College.* Trains graduates in Arts for the B.T. degree. Principal, H. R. Hamley, M.A., B.Sc., Dip.Ed. Melb., and 5 other Lectrs.

BOMBAY, *Municipal Laboratory.* In Chem. courses for the B.Hy. examn.

DHARWAR, *Karnatak College* (*Government*). In Arts. Principal, and Prof. of *Engl. and Philos.*—H. V. Hampton, M.A. Dub. Other Profs.: *Engl. and Hist.*—N. S. Takakhav, M.A. *Econ.*—S. G. Beri, M.A. *Sansk.*—V. G. Bhat, B.A. Camb.; R. G. Bhadkamkar, M.A. *Maths.*—C. P. Saldanha, M.A. *Logic and Philos.*—A. D. Dhopeshwarkar, M.A., LL.B. 7 Lectrs.

JUNAGADH, *Bahauddin State College.* In Arts. Principal, and Prof. of *Engl. Hist., and Pol. Econ.*—S. H. Hodivala, M.A. Other Profs.: *Engl.*—K. L. Oza, M.A. *French*—C. F. Saldanha, M.A. *Logic and Mor. Philos.*—Harilal M. Bhatt, M.A. *Maths.*—Narayan B. Pendse, M.A., LL.B. *Pers.*—M. H. Tirmizy. *Sansk.*—Mahadev M. Joshi, M.A. *Science*—Vasudev S. Ghurye, M.A. *Engl. Lit.*—S. M. Wadia, M.A. 3 Lectrs.

KARACHI, *Dayaram Jethmal Sind College.* In Arts; in Science for B.Sc. Principal, and Prof. of *Engl.*—S. C. Shahani, M.A. Other Profs.: *Biol.*—M. G. Punvani, B.A., M.B. *Chem.*—J. V. Lakhani, M.Sc. *Engl.*—T. M. Advani, M.A., LL.B. *Hist.*—D. T. Mariwalla, M.A. *Philos.*—G. G. Kewalramani, M.A., LL.B. *Maths.*—T. P. Trivedi, M.A., LL.B. *Pers.*—Hotchand M. Gurbaxani, M.A. *Phys.*—Suratram B. Butani, M.A., B.Sc. *Sansk.*—Hari Laxman Lagu, B.A. 6 other Teachers.

KARACHI, *Nadirshaw E. Dinshaw Civil Engineering College.* Under the control of the Sind Collegiate Board. Principal, and Prof. of *Engin.*—G. N.

Gokhale, B.Sc., L.C.E., A.M.I.E. Vice-Principal, and Prof of *Struct. Engin.*—S. B. Junnarkar, B.Sc. Lond.; M. H. Advani, L.C.E., and 8 other Teachers.

KOLHAPUR, *Rajaram College* (State). Principal, and Prof. of *Hist. and Econ.*—Balkrishna, M.A. Panj., Ph.D. Lond. 12 other Profs., etc.

POONA, *Deccan Government College.* In Arts. Principal, and Prof. of *Engl.*—H. G. Rawlinson, M.A. Camb. Other Profs.: *Engl.*—B. N. Seal, B.A. Camb. *Hist. and Econ.*—G. B. Jathar, B.A. Camb., M.A. Edin. and Bom.; R. P. Patwardhan, B.A. Ox. *Logic*—K. H. Kelkar, M.A. *Pers.*—N. D. Minocherhomji, B.A. *Sansk.*—S. K. Belvalkar, Ph.D. Harv., M.A. *Maths.*—D. D. Kapadia, M.A., B.Sc. 7 other Teachers.

POONA, *Fergusson College.* In Arts; in Science for B.Sc. Under the control of the Deccan Educn. Soc. Principal, and Prof. of *Physics*—K. R. Kanitkar, M.A., B.Sc. Other Profs.: *Bot. and Zool.*—Dhundiraj L. Dixit, B.A.; T. G. Yeolekar, M.A., B.Sc. *Chem.*—G. B. Kolhatker, M.A. *Engl. and Sansk.*—V. G. Paranjpe, D.Litt. Paris, M.A., LL.B. *Engl. and Marathi*—G. V. Tulpule, M.A. *Engl.*—Ganesh H. Kelker, B.A. Camb., M.A. *German*—Krishnaji K. Joshi, M.A., Ph.D. Würz. *Hist. and Pol. Econ.*—Vaman G. Kale, M.A.; D. G. Karve, M.A. *Hist.*—S. R. Kanitkar, M.A. *Logic, etc.*—V. K. Joag, M.A. *Maths.*—R. P. Paranjpye, M.A. Camb., D.Sc. Calc.; M. T. Patwardhan, M.A.; V. B. Naik, M.A.; G. S. Mahajani, M.A. *Philos.*—N. G. Damle, M.A. *Phys. and Chem.*—Mahadeo K. Joshi, M.A. *Sansk.-Shastri*—Wasudeo S. Abhyanker. *Sansk., Pali, etc.*—N. G. Suru, M.A. 15 other Teachers.

POONA, *Government Agricultural College.* In B.Ag. courses. A College Diploma course is also provided. Principal, and Prof. of *Botany*—W. Burns, D.Sc. Edin. *Chem. and Geol.*—D. L. Sahasrabuddhe, M.Sc., M.Ag. *Agric.*—B. S. Patel, B.Ag., N.D.A., N.D.D. *Entom.*—T. N. Jhaveri, L.Ag. *Hort.*—G. S. Cheema. 18 other Teachers.

POONA, *Government College of Engineering.* In Engin. (Civ. and Mech.) courses. Principal, and Prof. of *Civil Engin.*—W. L. C. Trench, B.Sc, B.A I. Dub., A.M.I.C.E. Other Profs.: *Struct. Design*—H. P. Jordan, M.Sc. *Elec. Engin.*—P. G. Dani, B.A., B.Sc. *Engin.*—C. Graham Smith, O.B.E., V.D., A.C.G.I., A.M.I.C.E. *Chem. and Geol.*—G. G. Narke, M.A. Calc., M.Sc. Manc. *Mech. Engin.*—A. David, B.Sc., M.E., A.M.I.E. An Asst. Prof. and 5 Lectrs.

POONA, *New Poona College.* In Arts. Under control of Shikshana Prasarak Mandali. Principal, and Professor of *Mathematics*—N. M. Shah, M.A. Camb. Other Profs.: *Econ. and Hist.*—R. P. Sabnis, M.A. Camb. *Engl. and Sansk.*—R. D. Karmarkar, M A. *Engl.*—R. K. Lagu, M.A. *Philos.*—N. G. Naralkar, M.A., L.T.; V. P. Patwardhan, M.A. *Physics*—M. R. Paranjpe, M.A., B.Sc 10 other Teachers.

POONA, *Poona Law College.* Under control of the Indian Law Society. Principal—J. R. Gharpure, B.A., LL.B. (Hons.). 7 other Profs.

SANGLI, *Willingdon College.* In Arts. Under control of the Deccan Educn. Society. Principal, and Prof. of *Logic and Moral Philos.*—G. C. Bhate, M.A. 8 other Profs.

SURAT, *M.T.B. Arts College.* In Arts. Under control of Gujarat Educn. Soc. Principal, and Prof. of *Hist. and Econ.*—D. R. Gadzil, B.A., M.Litt. Camb. 14 other Profs.

THE YEAR 1924–25

BENEFACTIONS. Sir N. G. Chandavarkar Memorial Fund, Rs. 10,000 for Scholarship in Hindu Law; Sir Dinsha Wacha, Rs. 10,000 for Minto Memorial Scholarship.

REGULATIONS for degree courses were extensively modified: Politics was introduced into pass course in History, and European and Ancient History were transferred from pass to honours course; option given to candidates for M.A. to offer thesis in lieu of written examn. in History; standard of LL.M. Examn. raised; working knowledge of French or German made compulsory for M.Sc. candidates; Agr. Engineering given a place as independent subject in B.Ag. Examn. Board of Studies in Commerce established. Graduates in Arts or Commerce of other univs. enabled to enter for B.Com. after 4 terms in an affiliated college.

OTHER DEVELOPMENTS. It was resolved to institute a faculty of Oriental Learning. A second reader in Sociology was appointed. Staff of Dept. of Sociology co-operated with Social Service League to start training class for Social Workers. Scheme for post-graduation studies in Sanskrit, History, and Maths. instituted, and Rs. 17,000 provided for its operation. Physical training of students investigated by a Committee.

RECOGNITION of examns. of Nagpur Univ. as equivalent to corresponding examns. of Bombay was accorded. Gokaldas Tejpal Hospl. was recognized for graduate study for M.D. and M.S. examns.

GRANTS were made of Rs. 1000 p.a. for Univ. Training Corps; Rs. 300 p.a. towards expenses of Journal of Indian Chemical Society, Calcutta; Rs. 200 p.m. for 20 copies (for affiliated Colleges) of Journal of Indian History, Allahabad; Rs. 3000 for publication of Mahabharata.

STUDENTS. Full-time, preparing for first degree, 9945, including 411 women; graduate, 186 (women—12); resident in colleges or hostels, 2662 (w.—35). Part-time, preparing for first degree, 81 (w.—2); graduate, 1090 (w.—12). In School of Economics and Sociology, 40. Occasional, 400 (w.—25). DEGREES OBTAINED: B.A., 606 (w.—18); B.Com., 45 (w.—1); B.T., 31 (w.—3); B.Sc., 128 (w.—2); B.Ag., 59; B.E., 60; LL.B., 322; M.B., B.S., 246 (w.—13); B.Hy., 2; M.A., 62 (w.—3); M.Sc., 12; M.Ag., 2; M.C.E., 1; M.D., 2; M.S., 2. Two TRAVELLING SCHOLARS proceeded to England and one to U.S.A.

UNIVERSITY OF CALCUTTA

CHANCELLOR—THE GOVERNOR OF BENGAL.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—The Hon. Sir WM. EWART-GREAVES, M.A.

PRESIDENT, POST-GRADUATE COUNCILS—Sir NILRATAN SIRCAR, M.A., M.D., LL.D., D.C.L.

REGISTRAR—J. C. GHOSH, M A.

CONTROLLER OF EXAMINATIONS—RAI BAHADUR A. C. BOSE, M.A.

INSPECTOR OF COLLEGES—H. C. MOOKERJEE, M.A., Ph.D

SECRETARIES TO THE COUNCILS FOR POST-GRADUATION STUDIES: in Arts—G. N. BANERJEE, M.A., Ph.D., in Science—H. C. BANERJEE, M.A., B.L.

UNIVERSITY PROFESSORS

Agriculture

Ganguli, N. N., B.Sc. Illinois
G. P. Singh Prof.

Art: Indian Fine Arts

Tagore, A. N., C.I.E., D.Litt.
Bageswari Prof.

Botany

Agharkar, S. P., M.A., Ph.D. Berlin
Sir R. B. Ghosh Prof.

Brühl, P. J., D.Sc., I.S.O., F.C.S., F.G.S. Prof.

Chemistry

Ray, Sir P. C., Kt., C.I.E., D.Sc. Lond., Ph.D., F.C.S.
Sir T. N. Palit Prof.

Mitter, P. C., M.A., Ph.D. Berl.
Sir R. B. Ghosh Prof.

Sen, H. K., M.A., D.Sc. Lond.
Sir R. B. Ghosh Prof. of Applied C.

Mookerjee, J. N., D.Sc. Lond.
G. P. Singh Prof.

Economics [Minto Prof.

Banerjea, P. N., M.A., D.Sc. Lond.

English [Prof.

Stephen, H., M.A., D.D., Ph.D.

History and Culture, Ancient Indian

Bhandarkar, D. R., M.A., Ph.D.
[Carmichael Prof.

Mathematics

Prasad, Ganesh, D.Sc. Lond. (Higher M.) Hardinge Prof.

Mookerjee, S. D., M.A., Ph.D. Prof.

Sen, N., D.Sc. (Applied M.)
Sir R. B. Ghosh Prof.

Mental and Moral Science

Radhakrishnan, S., M.A.
George V. Prof.

Haldar, H. L., M.A., Ph.D. Prof.

Philology, Comparative

Taraporewala, I. J. S., B.A., Ph.D. Prof.

Phonetics, Indian Linguistics and
Chatterjee, S. K., M.A., D.Litt. Lond. G. P. Singh Prof.
Physics [Palit Prof.
Raman, C. V., M.A., D.Sc., F.R.S.
Bose, D. M., M.A., D.Ph. Berlin Sir R. B. Ghosh Prof.
Ghosh, Phanindranath, M.A. Ph.D., D.Sc. Lond. Sir R. B. Ghosh Prof. of Applied P.
Mitra, S. K., D.Sc. G. P. Singh Prof.
Zoology
Mitra, K., B.A. Prof.

POST-GRADUATE TEACHERS IN ARTS. *Economics*, 18; *English*, 17; *History*, including *History and Culture, Ancient Indian*, 41; *Indian Vernaculars*, 25; *Mathematics, Pure*, 11; *Sanskrit*, 22; *Pali*, 13; *Persian and Arabic*, 5; *Philology, Comp.*, 4; *Philosophy*, 16; *Psychology, Expl.*, 7; *Anthropology*, 10; *Commerce*, 12.

POST-GRADUATE TEACHERS IN SCIENCE. *Botany*, 5; *Chemistry*, 16; *Geology*, 3; *Mathematics, Applied*, 8; *Physics*, 12; *Physiology*, 4; *Zoology*, 6.

UNIVERSITY LAW COLLEGE. Principal—S. C. Bagchi, B.A., LL.B., LL.D. Vice-Principal—B. M. Majumdar, M.A., B.L. Professors: *C.P. Code and Evidence*—Birajmohan Majumdar, M.A., B.L., and 3 others. *Crim. L.*—Haraprasad Chatterjee, M.A., B.L., and 3. *Equity*—The Principal and 3. *Hindu L. and Const. L.*—J. P. Sarbadhikary, M.A., B.L., and 8. *Internat. L., Private*—P. Chaudhury, M.A. *Jurispr. and Roman L.*—Karunamay Basu, M.A., B.L., and 7. *Land Laws*—S. C. Datta and 3. *Real Property, Contracts and Torts*—S. C. Roy, B.A., LL.B., Barr.-at-Law, and 8. *T.P. Act, Mahom., and Pers. L.*—M. N. Roy, M.A., B.L., and 7.

GENERAL INFORMATION (v. also p. 500)

Founded in 1857, this Univ. has been mainly an examining body, but has provided facilities for research since 1893 (when the Premchand Roychand Endowment was applied to this purpose), and post-graduate teaching since 1909. In 1917 a new scheme for post-graduate teaching came into operation under which all students who desire instruction in the M.A. or M.Sc. courses in Calcutta must be registered in the Senate House as Univ. students. A Commission under the Presidency of Sir Michael Sadler, K.C.S.I., appointed by the Govt. of India in Sept. 1917 to inquire into the condition and prospects of the Univ. and consider the question of a constructive policy, presented a comprehensive report and a series of important recommendations in March 1919. Teaching in all the subjects for the B.Com. examn., including French, German, and other modern languages, Arabic, Pali, Persian, Tibetan, Chinese, and Japanese, and an annual course of lectures on "*The Poverty Problem*" are provided by the Univ.

Government grants from 1912 to 1923 amounted to Rs. 38,00,000, including Rs. 4,23,000 for endowment of chairs, and Rs. 13,36,000 for Hostels and a Students' Mess Scheme. During the same period private benefactions amounted to Rs. 60,86,000.

The Univ. buildings (expenditure on which from 1912 to 1923 amounted to Rs. 33,00,000) include a Senate House, completed in 1872 at a cost of Rs. 4,35,000, the Durbhanga LIBRARY with Law College, Hostel, and Univ. offices (Rs. 12,00,000), the Univ. Press, the Asutosh Building (Rs. 5,18,000) for post-graduation classes in Arts, post-graduation offices and lending library, and two palatial buildings for the teaching of post-graduation Science courses. LABORATORIES (in Univ. Coll. of Science): Phys. and Chem. (Pure and Applied), Applied Maths., Expl. Psych., Biol., Agric., Geol., etc.

FACULTIES. Arts, Science, Law, Medicine, Engineering. The Affiliated Institutions (v. *infra*) include Colleges of Law (Calcutta—Ripon and Univ.—Gauhati), Medicine (Belgachia and Calcutta), Engineering (Sibpur), and Teaching (Calcutta—David Hare and Diocesan).

DEGREES, ETC. B.A., M.A., Ph.D.; B.Sc., M.Sc., D.Sc.; B.Com.; B.T.; B.L., M.L., D.L.; M.B., M.D., M.S., M.O., D.P.H.; B.E., D.Sc. (Engin.).

STUDENTS' WELFARE. A committee of medical experts deals with all matters relating to the health of students, including physical education and organization of games and other forms of recreation. Military Training is provided for a Univ. Corps recruited from affiliated colleges. At the Hardinge Hostel for Law students the monthly charges amount to from Rs. 24 to Rs. 26.

RESEARCH STUDENTSHIPS, ETC. Premchand Roychand, Rs. 1400 p.a. for 3 yrs., awarded annually, 1 in Lit. and 1 in Science subject; Sreegopal Basumallik, Rs. 4000 in Vedanta (compared with Western) Philosophy; Durbhanga, Rs. 600 in Med.; Sir R. B. Ghosh, Rs. 900, 8 annually to Science students to be attached to the Sir R. B. G. Profs.; Guruprasanna Ghosh, 1 annually, tenable for 3 yrs. in Japan (Rs. 1000) or Europe or America (Rs. 2000) by Bengal Hindus; Palit., Rs. 1,00,000 endowment for research or investigation out of India; Sir R. B. Ghosh Travelling Fellowships (3), Rs 2,50,000 endowment for research or investigation out of India for 1 yr.; Jubilee post-graduate scholarships in literary and scientific subjects, Rs. 32 p.m. for 2 yrs., one in each subject of the Honours B.A. and B.Sc. examns.; Sir P. C. Ray, annual prize for research in Chemistry, by a graduate student of the Univ. working in the College of Science, gold medal (value Rs. 100) and Rs. 500 in cash; Sir B. K. Bose, annual scholarship of Rs. 40 p.m. for a graduate student of the Univ. College of Science; S. N. Ghosh Lectureship in Comp. Religion, Rs. 9000; Tagore Professorship in Law, Rs. 9000; Kamala Lectureship in Indian Life and Thought, Rs. 1000 and gold medal. Numerous other lectureships, scholarships, medals, and prizes.

PUBLICATIONS. *Calendar*; *Calcutta Review*, monthly, annual subsn., Rs. 7 inland, Rs. 10 foreign; *Journals* of Depts. of Letters and of Science, Rs. 9 per vol.; Bulletin of Math. Society, etc.

AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES

[M.A., etc. = Affiliated up to M.A., etc., standard. 1923 in square brackets means that no returns have been received since 1923.]

BANKURA, *Wesleyan College*. B.A. and B.Sc. Principal—A. E. Brown, C.I.E., M.A. Camb., B.Sc. Lond. Vice-Principal—A. R. Spooner, B.A. Lond. 22 other Teachers.

BARISAL, *Brojomohan Institution*. B.A. and B.Sc. Principal, and Prof. of *Maths.*—S. C. Chatterjee, M.A. Vice-Principal—K. P. Ghosh, B.A. 27 other Teachers.

BELGACHIA, *Carmichael Medical College*. M.B. Principal—Kedarnath Das, C.I.E., M.D. Profs.: *Anat.*—M. N. Bose, M.B., C.M. Edin. *Physiol.*—S. P. Niyogi, M.Sc., M.B. *Mat. Med.*—P. Nandi, M.D. *Midw.*—K. N. Das, C.I.E., M.D. *Surg.*—M. Mitra, M.D., F.R.C.S. Edin. *Med.*—B. C. Roy, M.D., M.R.C.P., F.R.C.S. *Jurispr.*—Major C. A. Godson, I.M.S. *Op. Surg.*—L. M. Banerjee, M.S. Calc., F.R.C.S. Eng. *Hygiene*—T. N. Majumdar, D.P.H. 45 other Teachers.

BERHAMPUR, *Krishnath College.* B.A. and B.Sc. Two years' course for Diploma in Commerce. Principal—B. C. Das, M.A. Camb. 40 Profs. and other Teachers.

BHOWANIPUR, *Asutosh College.* B.A. and B.Sc. Principal, and Prof. of *Econ.*—Panchanan Sinha, M.A., B.L. 28 other Teachers.

CALCUTTA, *Bangabasi College.* B.A. and B.Sc. Principal—G. C. Bose, M.A., M.R.A.S. 38 Teachers.

CALCUTTA, *Bengal Engineering College* (Govt.), Botanic Garden P.O., Howrah. B.E. Principal—T. H. Richardson, M.A., B.A.I. Dub., M.I.C.E. Irel., M.I.E. Ind. Profs. of *Civil Engin., Elec. Engin., Mech. Engin., Mining, Physics, Maths.*, and *Chemistry.* 27 other Teachers.

CALCUTTA, *Bethune College* (Girls). B.A. Supported by Govt. Principal —Miss G. M. Wright. 13 Teachers.

CALCUTTA, *City College.* B.A. and B.Sc. Principal, and Prof. of *Engl. Lit.*—Herambachandra Maitra, M.A. Vice-Principal, and Prof. of *Maths.*—K. P. Chattoraj, M.A. 44 other Teachers.

CALCUTTA, *David Hare Training College* (Govt.). B.T. Acting Principal, Prof. of *Hist. of Educn.*—Chintaharan Chakravarti, M.A., B.T. Other Profs.: Binayabhusan Sarkar, B.A., B.T.; J. M. Sen, M.Ed. (Leeds), B.Sc. (Cal.), F.R.G.S., etc.; Banabilas Ray, M.A., B.T.; G. C. Das-gupta, B.A., B.T.

CALCUTTA, *Diocesan College* (Girls). B.A., B.T. Principal—Sister Dorothy Frances. 10 Teachers.

CALCUTTA, *Loreto House* (Girls). B.A. Established 1842. Connected with Univ. since 1889. Principal—Provincial Superioress of the Loreto nuns in India. 8 other Teachers.

CALCUTTA, *Medical College of Bengal.* M.B. Principal, and Prof. of *Medicine*—Lt.-Col. F. A. F. Barnardo, C.I.E., C.B.E., M.D., F.R.C.S.E., I.M.S. Other Profs.: *Anat.*—N. Pan, M.B. *Anat. and Physiol.*—Lt.-Col. A. C. Macgilchrist, M.A., M.D., D.Sc., M.S. *Bot. and Zool.*—Asst. Surg. E. N. Ghosh. *Chem.*—Lt.-Col. J. C. Boyd, I.M.S. *Dentistry*—M. A. Taylor. *Hygiene*—Major A. D. Stewart, I.M.S. *Mat. Med. and Clin. Med.*—Major J. D. Sandes, F.R.C.P., M.D., I.M.S. *Med. Jurispr.*—Capt. J. C. De, M.R.C.P., I.M.S. *Midw.*—Lt.-Col. Leicester, I.M.S. *Ophth. Med. and Surg.*—Lt.-Col. W. V. Coppinger, M.D., F.R.C.S., I.M.S. *Path.*—Capt. G. Shanks, M.D., I.M.S. *Physics*—Tulsidas Kar, M.A. *Surgery, Principles of*—Lt.-Col. F. P. Cannor, D.S.O., F.R.C.S., I.M.S.; *Surgery, Clin. and Operative*—Lt.-Col. H. B. Stein, M.D., I.M.S. 29 other Teachers.

CALCUTTA, *Narsinha Dutt College,* Howrah. I.A. and I.Sc. Principal, and Prof. of English—M. Chatterjee, M.A. 6 other Profs.

CALCUTTA, *Presidency College.* B.A. and B.Sc. Maintained by Govt. Number of undergrads. limited to 650. Principal—H. E. Stapleton, M.A., B.Sc. Other Profs.: *English Literature*—B. G. Mukerjee, M.A.; T. S. Sterling, M.A.; Praphullachandra Ghosh, M.A.; Srikumar Banerjee, M.A.; H. K. Banerjee, M.A., B.Litt.; M. G. Bhattacharjee, M.A.; P. C. Dustoor, M.A. *Geology*—G. V. Hobson, B.Sc. Lond., A.R.S.M., D.I.C. *Ment. and Mor. Philos. and Logic*—P. D. Shastri, M.A., Ph.D., B.Sc.; Khagendranath Mitra, M.A.; S. N. Das Gupta, Ph.D.; R. K. Datta, M.A. *Hist.*—K. Zachariah, B.A.; Binaykumar Sen, M.A.; U. N. Ghoshal, M.A., Ph.D.; S. C. Majumdar, M.A. *Pol. Econ. and Pol. Philos.*—J. C. Coyajee, B.A., LL.B.; Panchanandas Mukherjee, M.A.; D. G. Chattoraj, M.A. *Sansk., Pali, and Bengali*—Nilmani

Chakrabarti, M.A.; Harihar Banerjee, M.A.; S. N. Bhaduri, M.A. *Arabic and Pers.*—Md. Sonaullah, M.A.; M. Haque, M.A.; Hedayat Hossain. *Maths. and Astron.*—B. M. Sen, M.Sc., M.A. Camb.; Saradaprasanna Das, M.A.; J. M. Bose, M.A., B.Sc. Edin.; H. C. Sengupta, M.A. *Phys.*—P. C. Mahalanabis, B.A.; S. Datta, D.Sc. *Chem.*—Jyotibhushan Bhaduri, M.A., F.C.S.; R. N. Sen, M.Sc.; P. Niyogi, Ph.D., F.C.S. *Physiol.*—S. C. Mahalanabis, B.Sc.; N. C. Bhattacharyya, M.A., B.Sc. *Botany*—S. C. Banerjee, M.A.; S. C. Sinha, M.A. 25 Assts. and Demrs.

CALCUTTA, *Ripon College.* B.A., B.Sc., B.L.

College Department. Principal, and Prof. of Engl.—N. Raye, M.A. Vice-Principal, and Prof. of Engl.—R. N. Ghose, M.A. 35 other Teachers.

Law Dept. Principal—S. C. Chaudhuri, M.A., LL.B. Camb., Barr.-at-Law. Prof.—J. N. Kanjilal, M.A., D.L. 9 other Teachers.

CALCUTTA, *St. Joseph's College.* I.A. and I.Sc. Principal—Rev. Br. P. F. Lillis. Vice-Principal, and Prof. of *English and History*—Rev. Brother J. L. Maher. 5 other Profs.

CALCUTTA, *St. Paul's Cathedral Mission College* (formerly "The Church Missionary Society's College"). B.A. Number of students limited to 250. Acting Principal, and Prof. of *Lit.*—Rev. P. G. Bridge, D.D. Acting Vice-Principal, and Prof. of *Engl.*—H. M. Grindon, M.A. Camb. and Lond. 15 other Teachers.

CALCUTTA, *St. Xavier's College* (S.J.). B.A., B.Sc. Students of other religious persuasions are admitted. Rector—J. Fallon, S.J. 31 Teachers.

CALCUTTA, *Sanskrit College.* B.A. Principal, and Prof. of *Philos. and Logic*—A. N. Mukerjee, Ph.D. 18 other Teachers.

CALCUTTA, *Scottish Churches' College.* B.A. and B.Sc. Formerly the General Assembly's Institn. and Duff Coll. Principal—J. Watt, M.A., D.D., F.C.S. Other Profs.: *Engl.*—A. Cameron, M.A.; J. D. Sinclair, M.A., B.D.; J. F. Macdonald, M.A.; S. C. Dutt, M.A. *Philos. and Logic*—W. S. Urquhart, M.A., D.Litt.; G. Ewan, M.A., Ph.D.; P. C. Sen, M.A.; S. P. Biswas, M.A. *Econ.*—J. Kellas, M.A.; N. C. Bhattacharyya, M.A. *Maths.*—M. S. Sarkar, M.A.; A. C. Ganguli, M.Sc.; B. B. Mandal, M.Sc.; G. Bhose. *Sansk.*—B. L. Banerjee, M.A.; K. P. Mookerjee; N. L. Vidyabinod. *Bengali*—M. M. Bose. *Hindi*—Shib Narain Lala. *Physics*—N. C. Ray, M.A.; R. K. De, M.A., B.Sc. *Chem.*—B. C. Dutt, M.A., F.C.S.; R. N. Chatterjee, M.A. *History*—M. L. Sarkar, M.A.; A. C. Sen, M.A. 10 other Lectrs.

CALCUTTA, *Univ. Law College*, v. *supra*.

CALCUTTA, *Vidyasagar College* (formerly Metropolitan Institn.). B.A. and B.Sc. Principal, and Prof. of *Sanskrit*—Saradaranjan Ray, M.A., V.S.V. Vice-Principal, and Prof. of *Engl. Lit.* and *Philos.*—J. R. Banerjea, M.A., B.L. 41 other Teachers.

CHITTAGONG, *College* (Govt.). B.A. and B.Sc. Principal—Shams-ul-'Ulama Md. Kamál-ud-Din Ahmad, M.A., acting. 24 other Teachers.

COMILLA, *Victoria College.* B.A. Principal, and Prof. of *Engl. Lit.*—Satyendranath Basu, M.A. 13 other Teachers.

COOCH-BEHAR, *Victoria College.* B.A. and B.Sc. Principal, and Prof. of *Physics*—M. Dey, M.A. 16 other Teachers.

DAULATPUR, *Hindu Academy.* B.A. and B.Sc. Principal—B. B. Bhattacharyya, M.A. Vice-Principal—B. B. Bhattacharyya, M.A. 21 other Teachers.

FARIDPUR, *Rajendra College*. B.A. Principal—K. N. Mitra, M.A. 17 other Teachers.

FENI COLLEGE. B.A. Principal, and Prof. of *History*—A. C. Rakshit, M.A. 11 other Profs.

GAUHATI, *Cotton College* (Govt.). M.A. in English (partially); B.A. and B.Sc. Principal—F. W. Südmersen, C.I.E., B.A. Lond. Profs.: *Engl.*—R. C. Goffin, M.A. Lond.; Praphullachandra Ray, M.A.; Asutosh Chatterjee, M.A.; S. K. Bhuyan, M.A., B.L.; B. K. Kakati, M.A. Profs. of *Physics*—D. E. Roberts, M.A.; S. N. Chatterjee, M.A. *Chem.*—C. L. De, M.A.; A. K. Das, M.A.; S. C. Chatterjee, M.Sc. *Maths.*—Harshanath Sen, M.Sc. *Philos.*—R. R. Thomas, M.A. *Sansk.*—L. N. Chatterjee, M.A., V.S. *Arabic and Persian*—S. Md. Mahibullah. *Economics*—A. E. Brown, M.A., LL.B., Barr.-at-Law. 12 other Teachers.

GAUHATI, *Earle Law College* (Govt.). Principal—J. Borooah, Barr.-at-Law. Profs.: T. N. Phukun, B.L.; Satyanath Bara, B.L.; S. C. Chakravarti, M.A., B.L.

HETAMPUR, *K.C. College*. B.A. Principal—B. C. Sengupta, M.A., B.L.

HUGHLI COLLEGE. B.A. and B.Sc. Maintained by Govt. Principal, and Prof. of *Hist.*—R. B. Ramsbotham, M.B.E., M.A., B.Litt. Ox., I.E.S. 18 other Teachers.

KRISHNAGAR COLLEGE (Govt.). B.A. and B.Sc. Principal—Egerton Smith, M.A. 20 other Teachers.

MIDNAPORE, *Midnapore College*. B.Sc. Principal—H. C. Sanyal, M.A., B.L. 11 Teachers.

MYMENSINGH, *Anandamohan College*. B.A. Principal—Jajneswar Ghosh, M.A., Ph.D. 22 Teachers.

RAJSHAHI, *Government College*. B.A. and B.Sc. Principal, and Prof. of *Phys.*—S. N. Maitra, M.A., B.A. Camb. 34 other Teachers.

RANGPUR, *Carmichael College*. B.A. and B.Sc. Principal, and Prof. of *Engl.*—N. Mookerjee, M.A. 21 other Teachers.

SERAMPORE COLLEGE (chartered in 1818 by the King of Denmark. Grants a B.D. degree which is accepted as equivalent to Calcutta B.A. as qualifying for post-graduate courses in most subjects. Bishops' College, Calcutta, is affiliated to it). B.A. Principal, and Prof. of *Engl. and Hist.*—G. Howells, M.A., B.D., B.Litt., Ph.D. Vice-Principal, and Prof. of *Philos.*—J. Drake, B.A., B.D. 25 other Teachers.

SHILLONG, *St. Edmund College*. I.A. and I.Sc. Principal, and Prof. of *English*—Rev. Brother J. E. McCann. 5 other Profs.

SYLHET, *Murarichand College* (Govt.). B.A. Principal—D. Thomson, M.A., B.Sc., Ph.D. 20 Teachers.

THE YEAR 1924–25

BENEFACTIONS. Rs. 4000 for annual award of prizes. Dr. Dunn's Library.

NEW BUILDING. The "Asutosh Building" for post-graduate (Arts) classes, etc.

IMPORTANT CHANGES. The age-limit for Matriculation candidates has been lowered from 16 to 15 years. Business Method and Correspondence, Commercial Geography, and Portuguese (vernacular and classic) have been added

to list of subjects for Matriculation Examn. Admission to the course for the B.L. degree, formerly restricted to graduates in Arts or Science, was made available to B.Com., M.B., and B.E. University Law College opened Advocate Classes for graduates wishing to practise in the Original Side of the High Court —a privilege hitherto allowed only to the Barristers-at-Law.

Proposals were submitted to Government for (1) new matriculation regulations involving employment of vernaculars as medium of instruction and provision for Scientific and Vocational training; (2) imparting physical education in schools and colleges; and (3) lectures in Vernaculars for the Intermediate and B.A. Classes.

Recognition of Courses or Examination. The M.S.L.C. Examn. of the Punjab Univ. as equivalent to the Matriculation Examn. of Calcutta. The Degree Examns. of the Nagpur Univ. as equivalent to the corresponding Degree Examns. of Calcutta. The Viswabharati (Santiniketon-Bolpur) of Dr. Rabindranath Tagore was recognized as competent to present candidates as non-collegiate students for the I.A. and B.A. Examns. in certain subjects for 2 years.

Three Travelling Fellows proceeded to London, Lisbon, and Paris, to London, and to Berlin respectively.

Degrees conferred (1924). Ph.D., 4; D.Sc., 2; D.L., 1; M.A., 279; M.Sc., 47; B.A., 1994; B.Sc., 575; B.T., 19; B.Com., 49; B.L., 729; M.B. (Parts I. and II. as a whole), 17; B.E., 39.

CALCUTTA SCHOOLS OF TROPICAL MEDICINE AND HYGIENE

These Schools are controlled by (1) the Government of Bengal, aided by the advice of the recently founded *Faculty of Tropical Medicine* of Bengal and of the Surgeon General with the Govt.; (2) the Endowment Fund Governing Body; and (3) the Indian Research Fund Association. A post-graduation clinical and laboratory course (Oct.-April) leads to the D.T.M. of the Faculty of T.M. of Bengal. A 3-months' (July-Oct.) course for medical officers and other practitioners leads to a certificate granted by the same authority. A 9-months' course (Oct.-July) for medical graduates leads to the D.P.H. of the Univ. of Calcutta and of the Examining Bodies in England. A *Pasteur Institute* was opened in May 1924.

Research Departments (in 1924): Leprosy, Kala Azar, Hookworm, Dysentery, Diabetes, Filariasis, Cinchona, Indigenous Drugs, Radiology.

Director—Lt.-Col. J. W. D. Megaw, C.I.E., B.A., M.B., B.Ch., B.A.O. (R.U.I.), I.M.S. Profs. and Lectrs.: Tropical Medicine, 17; Hygiene, 15; Carmichael Hospital (Tropical Diseases) Staff, 5; Pasteur Institute, 2; Special Research Staff, 18.

UNIVERSITY OF DACCA (BENGAL)

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF BENGAL.

VICE-CHANCELLOR—Sir PHILIP J. HARTOG, C.I.E., LL.D., M A., B.Sc.

REGISTRAR—KHAN BAHADUR NAZIRUDDIN AHMAD, M.A.

TEACHING STAFF

Arabic and Islamic Studies

Siddiqi, A., M.A. Alld., Ph D. Gött. Prof.
Wahhab, A. A., M.A., B.L. Calc. Reader.
Israeli, Saadat Ulla Lectr.
Ali, Munawar Lectr.
Ahmad, Marghoob, M.A., M.O.L. Panj. Lectr.
1 Asst.

Chemistry

Ghosh, J. C., D.Sc. Calc. Prof.
Sircar, A. C., M.A., Ph.D. Calc. Reader.
Choudhury, J. K., M.A. Calc., Ph.D. Berl. Reader (Analytical C.).
Guha, P. C., D.Sc. Calc. Reader.
De, R. L., M.Sc. Calc. Lectr.
1 Tempy. Lectr. and 8 Assts.

Commerce

Junnarkar, P. B., M.A., LL.B. Bom. Reader.*
Hussain, A., M.A. Calc. Lectr.
1 Asst.

Economics and Politics

Sinha, J. C., M.A. Calc. Reader.*
Aiyyer, S. V., M.A. Mad. Lectr.
Banerjee, D. N., M.A. Calc. Lectr.
Saha, K. B., M.A. Calc. Lectr.
Dam, M. L., M.A. Calc. Lectr.
2 Assts.

Education [Hon. Reader.*
West, M. P., B.A. Ox.
4 Hon. Teachers.

English

Wrenn, C. L., M A. Ox. Reader.*
Guha, P. K., M.A., B.L. Calc. Lectr.
Nag, U. C., M.A. Calc. Lectr.
Roy, B. K., M.A., B.L. Calc. Lectr.
Chanda, S. M., M.A. Calc. Lectr.
Hasan, M., M.A. Calc., B.A. Ox. Lectr.
2 Tempy. Lectrs. and 1 Asst.

History

Majumdar, R. C., M.A., Ph.D. Calc. Prof.
Rahman, A. F., B.A. Ox. Reader.
Banerjee, S. C., M.A. Calc. Lectr.
Bhattacharyya, S. N., M.A. Calc. Lectr.
Mukherjee, P. C., M.A. Calc. Lectr.
2 Assts.

Law [Prof.
Sen-Gupta, N. C., M.A., D.L. Calc.
Das-Gupta, J. N., M.A., M.L Calc. Lectr.
Datta-Gupta, A. K., M.A., B.L. Calc. Lectr.
Pal, N. C., M.A., B.L. Calc. Lectr.
5 Part-time Lectrs. and an Asst.

Mathematics

..... Prof.
Basu, N. M., D.Sc. Calc. Reader (Acting Head of Dept.).
Datta, H. N., M.Sc. Calc. Reader.
Ganguly, D. N., M.A. Calc. Lectr.

* Head of Department.

Ghosh, J. C., M.A. Calc. Lectr.
Sircar, H , M.Sc. Calc. Lectr.
1 Asst.

Persian and Urdu
Khan, F. A., M.A. Calc. Reader.
Azad, S. M. Z. H , B.A. Panj. Lectr.
Ahmad, M., B.A. Calc. Lectr.
1 Asst.

Philosophy
Langley, G. H., M.A. Lond. Prof.
Bhattacharyya, H. D., M.A. Calc. Reader.
Bhattacharyya, U. C., M.A. Calc. Lectr.
Gupta, U. N., M.A. Calc. Lectr.
Ahmad, K., M.A. Calc. Lectr.
2 Assts.

Physics
Jenkins, W. A., D Sc. Sheff. Prof.
Bose, S. N., M.Sc. Calc Reader.
Ghosh, S. N., M.A. Calc. Reader.
Guha, B. C., M Sc. Calc. Lectr.
7 Asst. Lectrs.

Sanskrit and Bengali
De, S. K., M.A., B.L. Calc., D.Lit. Lond.
Reader & Head of Dept.
Basak, R. G., M.A. Calc. Lectr.
Bhattacharyya, G. P., M.A. Calc. Lectr.
Shahidullah, M., M.A. Calc. Lectr.
Bandyopadhyay, C., B.A. Calc. Lectr.
1 Asst.

ASSOCIATED COLLEGE. Teachers' (Govt.) Training College, Dacca. The Principal and teachers are honorary teachers of the Univ. and the College students read for the L.T. and B.T. in accordance with regns. prescribed on that behalf.

GENERAL INFORMATION (v. also p. 500)

This Univ. was established in 1921 under an Act passed in 1920 which provides for the constitution of Faculties of Arts, Science, Law, Agriculture, and Medicine. It is constituted in its main lines in accordance with the recommendations of a Committee presided over by Mr. (now Sir Robert) Nathan in 1912 and by the Calcutta Univ. Commission of 1917–19, presided over by Sir Michael Sadler. The Report of this Commission states that " two main factors may be clearly distinguished in the origination of the Scheme : first and foremost the desire of the Musalmans of Eastern Bengal to stimulate the educational progress of their community, and, secondly, the desire of the Govt. of India to create a new type of residential and teaching Univ. in India, as opposed to the present affiliating type. To these must be added a third factor of especial importance, the desire of the Govt. to relieve the congestion of the Univ. of Calcutta." * Although special attention is being devoted to Islamic Studies and to the needs of the Musalman community, the Univ. remains open to all, without distinction of sex, race, creed, or class. It is a unitary and residential Univ., of which the constitution resembles in many respects that of the modern English universities. The Authorities of the Univ. include a Court, an Executive Council, an Academic Council, and Faculties ; and the Teaching Staff has the main responsibility for all matters connected with teaching and examns. The students (other than those living under specially approved conditions) reside in the Halls and Hostels situated in the Univ. domain, and the Univ. teachers also reside in the houses erected for them thereon. The domain consists of about a square mile of fine park land, including over 100 acres of playing fields. It is adjacent to the Civil

* Chapter xxxiii. of the *Report* deals in great detail with the scheme for the Dacca Univ.

Station of Dacca and to a park called the Ramna, and lies from 1 to 1½ miles north-west from the centre of Dacca City. It is provided with electric light and power.

The chief existing buildings for teaching and administrative purposes include: A Court House with residential block; central buildings, containing about 200 rooms, which cover 117,000 feet of floor space used for Class-rooms and Library (at present utilized partly as a hostel for Muslim students); Chemical and Physical Laboratories, each including about 12,000 sq. feet of floor space; the Curzon Hall (which accommodates about 2000 persons); the Dacca Hall buildings, with residential accommodation for 160 students; the Jagannath Hall buildings, providing for 200 students.

LIBRARY, 35,000 vols. LABORATORIES: Physical, with metal and wood workshops; Chemical, with special arrangements for training in commercial analytic methods.

FACULTIES. Arts, Science, Law.

ADMISSION. The standard required for admission to courses leading to degrees is that of the Intermediate examn. of an Indian Univ.

DEGREES, ETC. The duration of the courses of studies prescribed are as follows: for B.A. or B.Sc. ordinary, 2 yrs., with Honours, 3 yrs.; M.A. or M.Sc., 2 yrs., or in the case of a Dacca Honours B.A. or B.Sc., 1 yr.; B.T. or L.T., 1 yr.; M.T., 3 yrs.; B.Com., 2 yrs.; B.L., 3 yrs. (Dacca Honours B.A., 2 yrs.); M.L., 3 yrs. The Ph.D., D.Sc., or D.L. may be taken by graduates of 4 yrs.' standing, but graduates of other Univs. must first pursue researches in this Univ. for 2 yrs.; published research work required.

SCHOLARSHIPS open to graduates: 3 of Rs. 40 each p.m., 15 of Rs. 32, 1 of Rs. 30 (for backward classes only), 2 of Rs. 25 (Muhammadans only). Research studentships: 2 of Rs. 100 p.m. and 4 of Rs. 75.

FEES. Tuition, per session; for B.A., B.Sc., or B.L. course, Rs. 96; M.A., Rs. 120; M.Sc., Rs. 144; Registration, Re. 1; Admission, Rs. 5; Athletic, Rs. 5; Students' Union, Rs. 3; Research students, Rs. 10. HOSTELS: Seat-rent varies from Rs. 2 to Rs. 4 p.m., including cost of light, water, medical attendance, medicine and servants. Cost of food about Rs. 12 p.m.

TUTORIAL CLASSES have been organized for all the Depts. of Study. All the teachers of the Univ. are engaged on the work under the control of the Heads of the Depts. and the Provosts.

THE YEAR 1924–25

NEW BUILDINGS AND EQUIPMENTS. The Dacca Hall has been provided with an Assembly Hall, at an expenditure of Rs. 25,000. The foundation-stone was laid by the Chancellor.

RELATIONS WITH OTHER INSTITUTIONS. The degrees of the Dacca Univ. were recognized by all Indian Univs. incorporated by law as equivalent to their own. Most of the Univs. of Great Britain and Ireland recognized them as equivalent to the corresponding degrees conferred by any other Indian Univ. incorporated by law. The Institute of Chartered Accountants recognized the Dacca Univ. as an approved University for purposes of exemption from the Preliminary Examn. The Univ. has also been approved by the Council of Legal Education for the purpose of admission to the Inns of Court.

CHANGES IN STAFF. Dr. S. K. De, D.Lit. (London), Reader in English, was appointed as Reader and Head of the Department of Sanskrit and Bengali,

with effect from the beginning of the session 1925–26, thus leaving vacant the post of a Reader in English. Prof. A. Siddiqi, M.A. (Allahabad), Ph.D. (Göttingen), formerly Principal of the Osmania University, Hyderabad, was appointed Professor and permanent Head of the Department of Arabic and Islamic Studies. Mr. Charu Bandyopadhyay, B.A (Calc.), formerly Lecturer in Bengali at the Calcutta University, has been appointed a Lecturer in Bengali. Mr. S. N. Bose, M.Sc. (Calc.), Reader in Physics, having proceeded to Europe on study leave, Mr. Bhabani Charan Guha, M.Sc. (Calc.), has been appointed Acting Reader in his place. Dr. J. K. Choudhury, M.A. (Calc.), Ph.D. (Berlin), has been appointed Reader in Analytical Chemistry, with effect from July 1, 1925. Prof. N. C. Sen-Gupta, M.A., D.L. (Calc.), the permanent Professor and Head of the Department of Law, having proceeded on leave, Mr. J. N. Das-Gupta, M.L., has been appointed Acting Professor and Acting Head of the Department of Law till April 29, 1926.

Honorary Degree. *LL.D.*—P. J. Hartog, the first Vice-Chancellor of the Univ.

Public Lectures. 15 lectures, open to the public without fee, were delivered by the members of the Univ. staff.

Students. Total full-time students, 1355, of whom 5 were women; residing in hostels, 553; preparing for a first degree, 663 (women—2); graduate students, 641 (women—3). Degrees obtained: B.A., 96; B.Sc., 44; B.Com., 17; M.A., 76; M.Sc., 12: B.L., 30; B.T., 52; M.T., 1; L.T., 5.

UNIVERSITY OF DELHI

CHANCELLOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

PRO-CHANCELLOR—Hon. KHAN BAHADUR MIAN SIR MUHAMMAD SHAFI, K.C.S.I., C.I.E., D.Litt., LL.D., Bar.-at-Law.

VICE-CHANCELLOR—Sir HARI SING GOUR, M.A., D.Litt., D.C.L , LL.D., Bar.-at-Law.

RECTOR—N. V. THADANI, M.A.

TREASURER—K. C. ROY, C.I.E.

REGISTRAR—G. M. D. SUFI, M.A.

CONSTITUENT COLLEGES. St. Stephen's; Hindu; Ramjas. Colleges of the Univ. recognized for teaching up to the Intermediate standard until April 30, 1927: Anglo-Arabic, Ramjas, and Indraprastha Hindu Girls'.

APPOINTED AND RECOGNIZED TEACHERS of the University, November 1924. [Return for 1925 not received.]

(U.) denotes University Reader; (S.), (H.), (R.) denote St. Stephen's, Hindu, Ramjas Colleges respectively.

Arabic, Persian, and Urdu

Abdur-Rahman, Munshi Fazil (S.) (U.).
Verma, A. N., M.A. Calc. (H.)
Ali, Syed Azhar, M.A., M O.L., Munshi Fazil (Panj.) (S.).
Piyare Lal, Munshi Fazil (Panj.) (R.).
Hanif, P. N., Munshi Fazil (Panj) (R.).

Biology

Balkishan Das, M.Sc. Panj., Maulvi Fazil (H.).
Seth, M. L., M.Sc. Panj. (R.).
Hira Lal, B.Sc. Panj. (H.).

Chemistry, v. also Maths.

Bain, Miss A. M., M.A., B.Sc. Aberd. (U.).
Sant Ram, M.Sc. Panj. (C. and Physics) (R.).
Seth, R. B., M.Sc Panj. (U) (H.).

Economics [Birla Reader.

Chablani, H. L., M.A. Bom.
De, K. C , M.A. Calc. (Ec. and Engl.) (U.) (R.).
Hirde Narain, M.A. (Ec. and Philos.) (H.).
Mohan, S., M.A. (H.).
Nag, K. C., M.A. (S.).
Young, P. N. F., M.A. Camb. (Ec. and Hist.) (S.).
Scott, P. J., B.A. Camb. (Ec., Engl. and Hist.) (S.).
Spear, T. J. P., B.A. Camb. (Ec., Engl. and Hist.) (S.).
Capron, R. S., B.A. Camb. (Ec., Engl. and Hist.) (S.).

English and History, v. also Ec.

Bali, H. C., M.A. (Engl.) (H.).
Bhattacharya, A., M.A. Ox. (Engl.) (H.).
Dayal, S., M.A. Panj. (Engl.) (H.).
Fitch, W. O., B.A. Camb. (Engl. and Philos.) (S.).
Chanda, N. C., M.A. (Engl.) (R.).
Mal, Pt. R. R., M.A., B.T. Panj. (Engl. and Maths.) (R.).
Chakravarti, M. K., M.A. (Engl.) (R.).

Monk, F. F., M.A. Ox. (S).
Sen, S. K., M A. Ox. (U) (H).
Shahani, M. S., M.A. Ox., Barr-at-Law (H.).
Sharp, C. H. C., M A. Ox. (U.) (S).
Thadani, N. V., M.A. (Engl.) (H.).
Young, C. B., M.A. Ox. (Engl.) (U.) (S).
Rai, G., M.A. Panj. (Hist.) (H).

Law

The Vice-Chancellor Hon. Prof.
High Court Vakils recognized as Teachers:
Bose, A. C., B.A., LL B. (U.).
Parsada, A., M.A., LL.B. (U.)
Raj Jai Narain, Pt., B.A., LL.B. (U).
Abdur Rahman, B.A., LL.B. (U).
Nawal Kishore, B.A., LL.B. Lectr.
Lal, R. B., B.A., LL.B. Lectr.

Mathematics, v. also Engl.

Bannerji, A. T., M.A. Calc. (U.) (H.).
Mukerji, S. N., M.A. Panj., B.A. Camb. (Maths. and Physics) (U.) (S.).
Ram Behari, M.A. Panj. (S.).
Sitaram, M.A. Panj. (R.).
Nath, K, M A. Calc (Maths. and Chem) (R.).
Sri Ram, M.A. Panj. (H.).

Persian, v. Arabic

Philosophy, v. also Ec., Hist.

Sen, N. K., M.A. Calc. (U) (S.).
Mitra, C. C., M.A., B.L. Calc. (H).
Bannerji, N. V., M.A. Calc. (U.) (R.).

Physics, v. also Chem., Maths.

Chabra, B. D., M Sc. Panj. (H.)
Khub Ram, M.A. Panj., M Sc. Leeds (U.).
Sant Ram, M.Sc. Panj. (R).
Mitra, J. N., M.Sc. Calc. (S.).
Thakur Singh, M Sc. Demr.

Sanskrit

Har Narain, Shas., Mahamahopadya, Shastri (Panj.) (U.) (H).
Lachhmi-Dhar, M.A., M.O.L., Shastri (Panj.) (U.) (S.).
Sharma, H. D., M.A. Benares (R.).
Kaul, K. N., M.A. Panj. (H.).
Ganga Ram (R).

Urdu, v. Arabic

GENERAL INFORMATION (v. also p. 500)

The three constituent colleges, formerly affiliated to the Univ. of the Panjab, were united to form a teaching and residential Univ. (Govt. of India Act, No. VIII. of 1922), with effect from May 1, 1922. The authorities of the Univ. are a Court, an Executive Council, an Academic Council, and Faculties and Boards of Studies. The Univ. does not itself hold a Matricn. Examn. As a temporary measure, it admits students who have passed the matricn. examns. of other Indian Univs., but will after 5 years admit only those who have passed the Intermediate (Arts or Science) examn.

FACULTIES and Deans: Arts, C. B. Young; Science, Khub Ram; Law, The Vice-Chancellor.

DEGREES. B.A., B.Sc., M.A., M.Sc., Ph.D., D.Litt., LL.B., LL.M., LL.D.

AVERAGE HOSTEL EXPENSES, Rs. 20 p.m.

THE YEAR 1923–24. Readerships were instituted in Physics, in Chemistry, and (endowed by G. D. Birla with Rs. 6000 p.a. for 3 years) in Economics. The Maharaja of Datia offered to institute a Readership in Indian History. Steps were taken towards establishing a Faculty of Law. The formation of a Univ. Training Corps was sanctioned. *Number of students*, 850. *Successful candidates in Degree exams.* (1924): M.A., 16 (St. Stephen's, 14); B.A., 98 (St. Stephen's, 45, Hindu, 37, Ramjas, 16).

UNIVERSITY OF LUCKNOW

VISITOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES OF AGRA AND OUDH.

VICE-CHANCELLOR—G. N. CHAKRAVARTI, RAI BAHADUR, I.S.O., M.A., D.Sc., LL.B.

TREASURER—S. M. HABIBULLAH, O.B.E., B.A.

REGISTRAR—R. R. KHANNA, M.Sc.

COLLEGES AND DEPARTMENTS

KING GEORGE'S MEDICAL COLLEGE. Principal—Major H. Stott, O.B.E., M.D., B.S., M.R.C.P., D.P.H. Lond., I.M.S. (acting). Maintained by the Univ.

CANNING COLLEGE (Arts and Science). Principal, S. B. Smith, M.A. Ox. (acting). Maintained by the Univ.

ISABELLA THOBURN COLLEGE (Women's). Principal, Miss Mary E. Shannon, M.A.

DEPARTMENT OF COMMERCE. Head of Dept., B. N. Das Gupta, B.A., A.S.A.A.

LAW DEPARTMENT. Head of Dept., Pt. J. N. Chak, B.A. Ox., Barr.-at-Law

PROFESSORS, LECTURERS, ETC.

KING GEORGE'S MEDICAL COLLEGE

Anatomy

Said-uz-Zafar Khan, Sahebzada, M.B., Ch B. Edin., D.T.M. Liv. (on leave) Prof.

Goil, Capt. J. N., M.B., B.S. All. Lectr. (acting Prof.).

2 Demrs.

Materia Medica & Med. Jurispr.

Vyas, B. N., R.B., M.B. Panj. Reader.

Modi, J. P., L.R.C.P. & S. Edin., L.F.P. & S. Glas. Reader.

1 Demr.

Medicine

The Principal (on leave) Prof.

Burke, Major G. T., M.D., M.R.C.P. Lond., I.M.S. Acting.

Sahai, H., M.B., B.S. Panj. Lectr.

Obstetrics and Gynæcology

Hunter, Lt.-Col. T., M.A., B.Sc., M.D. Glas , I.M.S. (on leave) Prof.

Buckley, Lt.-Col. H. C., M.D., F.R.C.S.E., I.M.S. Acting.

Siret, Miss A., M.B. Calc. Resident Surgeon, Demr.

Ophthalmology

Acharya, B. G. S., B.A., M.B., C.M. Madras, L.R.C.P. Lond., F.R.C.S. Edin., M.R.C.S. Eng., D.O. Ox. Prof.

Misra, C. P., L.M.S. Panj. Lectr.

Pathology

Stott, Major H., O.B.E., M.D., B.S., M.R.C.P., D.P.H. Lond., I.M.S. Prof.

Mukerji, Capt. J. G., L.M.S. Panj. Reader.

Abdul-Hamid, Mohd., M.B., B.S. All. Lectr.
1 Demr.

Physiology
Burridge, W., M.A., D.M., B.Ch. Ox., L.M.S.S.A. Lond. Prof.
Mathur, S. N., M.B., B.S. All. Lectr.
1 Demr.

Public Health
Pandya, D. D., R.B., L.R.C.P. & S. Edin., L.F.P. & S. Glas., D.P.H. Camb. Prof.
Viswanathan, P. S., C.E., A.M.I.E. Lectr. (Sany. Engineering).

Radiology [Reader.
Lal, Ragunandan, M.B., B.S. Panj.

Surgery
Bhatia, R. N., R.B., B.A., B.Sc., M.B., F.R.C.S. Prof. (Acting).
Nigam, K. S., M.D. All., F.R.C.S. Eng., D.T.M. Lond. Lectr. and Regr.
Kacker, P. C., M.B., F.R.C.S. Hon. Lectr.
Pramanick, R. D., B.Sc., M.B., B.S. Lectr. Anæsthetist.

Canning College (Arts and Science)

Arabic
Siddiqi, M. Z., M.A., Ph.D. Camb. Reader.
Khalil, Mohd. Ben Arab Lectr.

Botany
Sahni, Birbal, M.A. Camb., D.Sc. Lond. Prof.
Chaudhury, H. P., M.Sc. Panj. (on leave) Lectr.
Pande, S. K., M.Sc. All. Acting.
Mukerji, Lieut. S. K., M.Sc. All. (on leave) Lectr.
1 Tempy. Lectr.
1 Demr.

Chemistry
MacMahon, P. S., M.Sc. Manc., B.Sc. Ox. Prof.
Gupta, B. M., M.Sc. All., Ph.D. Lond., A.I.C., D.I.C. Reader.
Sane, S. M., B.A., B.Sc. All., M.A., Ph.D. Berlin, F.C.S. Reader.
Raman Nayar, M., B.A. Madras, A.I.I.Sc. (Bang.) Lectr.
2 Demrs.

Economics
Mukerjee, R. Kamal, M.A., Ph.D. Calc. Prof.
Mukerji, B. B., M.A., B.L. Calc. Reader.
Dey, H. L., M.A. Calc. Lectr.
Mukerji, D. P., M.A. Calc. Lectr.

English [Prof.
Brown, C. J., M.A. Ox. (on leave)
Nixon, R. H., B.A. Camb. Acting Prof.
Sidhanta, N. K., B.A. Camb., M.A. Calc. Reader.
Roy, F. T., M.A. All. Lectr.
Pinto, F. F. T., B.A., LL.B. Camb. Lectr.
Roy, C. G., M.A. All. Jr. Lectr.
Bhattacharya, A. J., M.A. ,,
Ameer Ali, Syed, M.A., B.L. Calc. Jr. Lectr.

History [Prof. (European H.)
Smith, S. B., M.A. Ox.
Mookerji, R. Kumud, M.A., Ph.D. Calc. Prof. (Indian H.).
Banerji, S., M.A., L.T. All., Ph.D. Lectr.
Dey, J. C., M.A. Lond. Lectr.
Chatterji, C. D., M.A. Calc. Lectr.

Mathematics
Strang, J. A., M.A., B.Sc. Edin. (on leave) Prof.
Narayan, Lakshmi, M.A. All. Acting Prof.
Charan, S., M.A. Lond., M.Sc. Acting Reader.
Banerji, S., M.A. Calc. Lectr.

Modern European Languages
Keightley, B., M.A. Camb., Barr.-at-Law Hon. Reader.

Persian and Urdu

Rahman, M.B., M.A. Panj., Ph.D. Camb. Reader.
Nurul-Aziz, Moulvi Md., M.A. All. Lectr.
Abdul Qavi Fani, Md., M.A. All. Lectr.
Fiqar, B. N., Munshi Lectr.
Rizavi, M. H. Syed, B.A. All. Jr. Lectr. (Urdu).

Philosophy [Prof.

Cameron, M. B., M.A. Glas., B.Sc. Lond., D.Litt. (on leave)
Ahmad-Shah, E., M.A. All., B.Litt. Ox. Reader.
Kali Pershad, M.A. Lectr.

Physics

Wali Mohammad, M.A. Panj., Ph.D. Gött., I E.S. Prof.
Deodhar, D. B., M.Sc. All (on leave) Reader.
Ray, S. N., M.Sc. All. Lectr.
2 Demrs.

Political Science

Ram, V. S., B.A. California, M.A., Ph.D. Harv. Reader.
Menon, V. K. N , B.A. Ox. Lectr.
Agarwal, K. D , B.A. Camb., Barr.-at-Law Lectr.

Sanskrit and Hindi

Iyer, K. A. Subramanya, M.A. Lond. Reader.
Shastri, B. N., Pt. M.A. All. Lectr.
Thakur, A. D., Pt. M.A. All. ,,
Srivastava, S. R., M.A ,,
Bhatt, B. N., Pt. B.A. All. Jr Lectr.

Zoology

Bahl, K. N., M.Sc., D.Sc. Panj., D.Phil. Ox. Prof.
Thapar, Sardar Govind Singh, M Sc. Panj. (on leave) Lectr.
Inayat Ali Khan, M.Sc. Acting.
Bhatia, M. L., M.Sc. Lectr.
1 Demr.

Isabella Thoburn College (Women's)

Economics

Reddick, Miss O. I., M.A. Columbia Reader.

English

Dimmitt, Miss M. A., B.A., De Pauw (on leave) Reader.

European History

Manchester, Miss R. C., M.A. Bryn Mawr (on leave) Reader.

Persian

Baij-Nath-Fiqar, Munshi Lectr,

Philosophy

Eno, Miss Enola, Ph.D. Chicago Reader.

Sanskrit

Srivastava, R. Lectr.

Department of Commerce

Das Gupta, B. N., B.A., A.S.A.A. Reader.
Chatterji, B. N., M.A., B.L. Calc. Reader.
Dubey, D. S., M.A., LL.B. All. Lectr.
Pant, D., B.Com. Bom., F.S.S., F.R.E.S. Lectr.

Law Department

Readers (Part-time): [at-Law.

Chak, Pt. J. N., B.A. Ox., Barr.-
Husein, Hyder, B.A. Ox., LL.B. Dub., Barr.-at-Law.
Misra, J. N., B.A., LL.B. Camb., M.A., LL.D. Dub., Barr.-at-Law.
Banerji, J. K., M.A., LL.B. All.
Hajela, K. S., M.Sc., LL.B. All., LL.M. Bom.
Hasan, Ghulam, B.A. Panj., LL.B. All.

ORIENTAL DEPARTMENT

Maulvi Syed Ali Asghar; Maulvi Mustafa Hasan Alavi; Pandit Ram Krishna Shastri.

GENERAL INFORMATION (v. also p. 500)

This residential and teaching Univ. was established under an Act of the Provincial Legislature passed in Nov. 1920. The authorities of the Univ. include a Court, Executive Council, Academic Council, Committee of Reference, and Faculties.

FACULTIES. Arts, Science, Medicine, Law, Commerce.

ADMISSION. Qualifications for Degree courses: Arts or Science—the Intermediate Examn. of an Indian Univ. or of the Board of High School and Intermediate Education, U.P.; Law—Degree in Arts or Science; Commerce —Commerce Diploma Certif. of Allahabad or of the Panjab; Med.—Degree in Science of Alld., Benares, Bom., Calc., Dacca, Delhi, Mad., Mys., Panj., Patna, or Rangoon taken with Chem. and Biol. as optional subjects, or, subject to certain conditions, the Inter. or P.Sc. Examn. of All., Alig., Benares, Nagpur, or Interm. Board of Ed., U.P.

DEGREE COURSES for B.A., B.Sc., B.Com, 2 yrs.; M.A., M.Sc., 2 yrs.; LL.B., 2 yrs.; M.B., B.S., 5 yrs. The lectures are supplemented by tutorial work, each student being assigned to a tutor who gives him personal attention and guidance in his course of study.

FEES for tuition for full course: B.A., Pass and Honours, or B.Com., Rs. 216; M.A., Rs. 270; M.B., B.S., Rs. 544; B.Sc., Rs. 252; M.Sc., Rs. 300; LL.B., Rs. 240.

RESIDENCE. Students are required, unless specially exempted, to live in hostels.

ADULT EDUCATION. A system of public lectures by members of the staff and others has been started.

THE YEAR 1924–25

STUDENTS. Full-time, preparing for first degree, 422, including 19 women; graduate, 400 (women—9); total full-time students, 1155 (women—25). DEGREES OBTAINED: B.A., 94 (women—8); B.Sc., 43; M.A., 44; M.Sc., 10; M.B., B.S., 25 (w.—1); M.D., 1; LL.B., 120; B.Com., 20.

UNIVERSITY OF MADRAS

VISITOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF MADRAS.

VICE-CHANCELLOR—DIWAN BAHADUR SIR R. VENKATARATNAM, Kt., M.A.

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION.

REGISTRAR—WILLIAM MCLEAN, M.A., B.L.

UNIVERSITY PROFESSORS

Indian History and Archæology

Rao Sahib S. Krishnaswami Aiyangar, M.A., Ph.D. (Calc.).

Indian Economics

John Matthai, B.A., B.L., B.Litt., D.Sc. Prof. (on other duty).

T. K. Duraiswami Aiyar, M.A., L T. Acting.

P. S. Lokanathan, M.A., Dip.Econ. Reader (Ag. Asst. Prof.).

GENERAL INFORMATION (v. also p. 500)

This Univ., founded in 1857, has hitherto been mainly an examining body, but has, since 1912, maintained a small teaching staff and organized special lectures by persons eminent in Arts and Science in Europe and India, and in 1923 an Act was passed for reorganizing it as a Teaching and Residential Univ., while enabling it to continue to exercise control over the quality of the teaching given by its constituent and affiliated colleges. The Vice-Chancellor is a whole-time salaried officer. The authorities of the Univ. include a Senate, Syndicate, Academic Council, Faculties, Boards of Studies, and a Council of Affiliated Colleges.

From the Govt. of Madras the Univ. receives an annual statutory grant of Rs. 85,000.

FACULTIES. Arts, Science, Law, Medicine, Engineering, Teaching, Agriculture.

ADMISSION. The Matricn. examn. has been almost completely superseded by the School-Leaving Certif. scheme.

DEGREES, ETC. B.A., B.Sc., B.A. (Honours), B.Sc. (Honours), M.A., Ph.D., M.Sc., D.Sc.; B.Sc.Agr.; L.T.; B.L., M.L., LL.D.; M.B., B.S., L.M.S., B.San.Sc., M.D., M.S.; B.E.; M.O.L. (Oriental Learning).

DIPLOMAS. Titles in Oriental Learning (4 yrs.' course); Economics (part-time course—2 yrs.). CERTIFICATES of Proficiency in Oriental Learning (2 yrs.').

RECOGNITION of examns. of other Univs. is not granted in general terms. The Syndicate deals with each application on its merits.

FEES for Univ. examns. range from Rs. 12 for matricn. to Rs. 100 for higher degrees.

RESIDENCE, ETC. Minimum cost of board and lodging for students living in European style, Rs. 50 p.m., for Indians, Rs. 30. A Students' Club, started under the auspices of the Madras Govt. in 1919, provides inexpensive meals and facilities for games and social intercourse irrespective of caste or creed.

RESEARCH STUDENTSHIPS, tenable 3 or 4 yrs., value Rs. 100 to Rs. 200 p.m.

PUBLICATIONS. *Calendar* (July)—vol. i., Administration, Statutes, Ordinances and Regns., Syllabuses; vol. ii., Constituent and Affld. Colls., Endowments, Graduates. *Annual Report. Minutes.*

COLLEGES RECOGNIZED OR AFFILIATED IN DEGREE COURSES

Arts and Science

ALWAYE, *Union Christian College.* Principal—A. M. Varki, M.A., B.L.

ANANTAPUR, *Ceded Districts College.* Principal—A. Arulanantham, B.A. Ox.

CHIDAMBARAM, *Sri Minakshi College.* Principal—K. A. Nilakantasastri, M.A.

ERNAKULAM, *Maharajah's College.* Principal—V. R. Venkateswara Aiyar, M.A., L.T.

HYDERABAD, *Nizam College.* Principal, and Prof. of *Ancient Hist.*—K. Burnett, M.A. Ox.

KUMBAKONAM COLLEGE (Govt.). Principal—P. V. Seshu Aiyar, B.A., L.T., I.E.S.

MADRAS, *Christian College.* Supported by the Church and U.F. Church of Scotland and 5 other Missionary Societies. Principal—W. Meston, M.A., D.D. Professors: *Chemistry*—E. Barnes, B.Sc. *English Lang. and Literature*—F. W. Henderson, M.A.; G. Matthews, M.A., B.Litt.; W. L. Campbell, B.A.; J. R. Macphail, M.A.; W. Meston, M.A., B.D.; A. J. Boyd, M.A. *Hist.*—F. E. Corley, M.A.; J. N. Anderson, M.A. *Maths.*—E. B. Ross, M.A.; W. F. Kibble, M.A. *Ment. and Mor. Sc.*—A. G. Hogg, M.A., D.Litt.; A. J. Mackenzie, M.A.; A. S. Woodburne, M.A., B.D., Ph.D.; S. J. Theodore, M.A., B.D., B.Litt. *Phys. Sc.*—A. Moffat, M.A., B.Sc., LL.D.; J. P. Manikkam, M.A., L.T. *Nat. Sc.*—C. Lakshminarayanan, M.A. 30 other Teachers.

MADRAS, *Muhammadan College* (Govt.). For Muhammadans. Principal and Lectr. in *Engl.*—E. W. Green, M.A. (on other duty); R. W. Ross, B.A. (acting).

MADRAS, *Pachayyappa's College.* For Hindus. Principal, and Prof. of *Maths.*—K. Chinnatambi Pillai, B.A., L.T. (acting). 34 other Teachers.

MADRAS, *Presidency College* (Govt.). Principal, and Prof. of *Botany*—P. F. Fyson, M.A. Other Profs.: *Bot.*—M. O. Parthasarathi Ayyangar, M.A., L.T. *Chem.*—W. Erlam Smith, M.A. Ox.; B. B. Dey, D.Sc. Lond., F.I.C. *Econ.*—J. Matthai, B.Litt. Ox., D.Sc. Lond., B.L. *Engl.*—H. C. Papworth, M.A.; S. E. Ranganathan, M.A., L.T.; D. S. Sarma, M.A., L.T. *Geol.*—C. K. Krishnaswami Pillai, M.A., M.Sc. *Hist.*—M. A. Candeth, B.A., LL.B. Camb. *Maths.*—K. Ananda Rao, B.A. Camb. *Ment. and Mor. Sc.*—A. Chakravarti, M.A., L.T. *Physics*—M. C. S. Anantapadbanabha Rao, M.A., L.T.; H. Parameswaran, M.A., Ph.D., D.Sc. *Math. Phys.*—S. R. U. Savoor, B.Sc. Lond., B.A. Camb. *Sansk.*—S. Kuppuswami Sastri, M.A. *Zool.*—K. Ramunni Menon, M.A. Camb. 37 other Teachers.

MADRAS, *Loyola College.* Principal—F. Bertram, S.J., B.A., D.D.

MADRAS, *Queen Mary's College.* Principal—Miss de la Hey. 11 other Profs. and Lecturers and 6 Pandits.

MADRAS, *Women's Christian College.* Principal, and Prof. of *Ancient Hist.*, etc.—Miss E. McDougall, M.A. Vice-Principal, and Prof. of *Phys.*—Miss E. M. Coon, M.A.

MADURA, *American College* (Mission). Principal—W. W. Wallace, M.A., B.D. Vice-Principal—Peter Isaac, B.A., L.T. Heads of Depts.: *Engl.*—James M. Hess, M.A., B.D. *Hist. and Econ.*—A. J. Saunders, M.A., B.D. *Physics and Chem.*—E. M. Flint, M.A., B.Sc. 24 other Teachers.

MADURA, *The Madura College.* Principal—V. R. Venkatarama Ayyar, M.A.

MANGALORE, *St. Agnes' College.* Principal—Sister M. Annunciata, A.C.

MANGALORE, *St. Aloysius' College* (S.J.). Principal—Rev. L. Proserpio, S.J., M.A., D.D. 24 other Teachers.

MANNARGUDI, *Findlay College* (Wesleyan Mission). Principal, and Prof. of *Engl.*—Rev. R. Smailes, M.A. Camb. 13 other Teachers.

MASULIPATAM, *Noble College* (Church Miss. Soc.). Govt. annual grant. Principal—Rev. J. Roystrock, M.A., B.D., on furlough; A. B. Johnston, M.A., acting. 17 Profs., etc.

PALAMCOTTAH, *St. Xavier's College.* Principal—A. Lebeau, S.J.

RAJAHMUNDRY, *Government College.* Principal, and Prof. of *Engl.*—V. Appahad, M.A., L.T. (acting). 26 other Teachers.

TINNEVELLY, *Hindu College.* Principal—M. V. N. Subba Rao, M.A.

TRICHINOPOLY, *National College.* Principal—V. Saranatha Aiyangar, M.A.

TRICHINOPOLY, *St. Joseph's College* (S.J.). Open to all creeds and classes, but primarily for R.C.'s. Rector—F. X. Froehly. Principal—C. Leigh, S.J. Profs.: *Engl.*—C. Leigh. *Bot. and Phys.*—E. Gombert. *Chem.*—A. Haas. *Org. Chem. and Zool.*—A. Cambouliues, S.J. *Econ.*—P. Carty. *Hist.*—A. Saldanha and J. Steenkiste. *Maths.*—C. Pruvôt. *Phys.*—D. Honoré; P. E. Subrahmanya Aiyar, M.A. *French*—J. Bourdot. *Latin*—G. Foreau. 30 other Teachers.

TRICHINOPOLY, *Bishop Heber College.* Principal and Warden, and Prof. of *Engl.*—A. F. Gardiner, M.A. (on leave). 27 Profs. and Lectrs.

TRICHUR, *St. Thomas' College.* Principal—John Palocaren, M.A. Edin.

TRIVANDRUM, *Maharaja's College of Arts* (Govt.). Founded 1924. Principal—Rao Bahadur, K. V. Rangaswami Aiyangar, M.A. 11 Profs. and Lectrs., 13 Tutors and Pandits.

TRIVANDRUM, *Maharaja's College of Science* (Govt.). Principal, and Prof. of *Appl. Maths. and Physics*—R. Krishnaswami Aiyar, B.A., acting. 29 other Teachers.

VIZIANAGRAM, *Maharaja's College.* Principal—K. Janaki Rao, B.A., L.T.

Teaching

MADRAS, *Teachers' College* (Govt.). Principal—E. W. Green, M.A.

MADRAS, *Lady Willingdon Training College.* Principal—Miss J. M. Gerrard, M.A.

MADRAS, *St. Christopher's Training College.* Principal—Miss K. N. Brockway, M.A.

TRIVANDRUM, *Training College* (Govt.). Principal—Rao Bahadur, K. V. Rangaswami Aiyangar, M.A. 14 other Teachers.

Law

MADRAS, *Law College.* Principal—A. Davis, M.A., Barr.-at-Law. Profs.—C. Kunhiraman, B.A., B.L., Barr.-at-Law; K. Subrahmanya Pillai, M.A., M.L. 7 Asst. Profs.

TRIVANDRUM, *Maharaja's Law Coll.* (Govt.). Principal—H. S. Chatfield, B.A., Barr.-at-Law. Senr. Profs.—E. J. John, B.A., B.L.; M. K. Govinda Pillai, B.A., B.L. 8 Junr. Profs.

Medical

MADRAS, *Medical College* (subject to the authority of the Surg.-Genl. with the Govt. of Mad.). Its certifs. are recognized by the Colls. of Surgs. of Eng., Scot., and Irel. Women students are admitted free. Principal—Lt.-Col. F. F. Elwes, C.I.E., M.D., I.M.S. (on leave). Other Professors: *Anat.*—S. Swaminatha Pillai, F.R.C.S.I. *Hyg.*—Lt.-Col. R. B. B. Foster, M.B., D.P.H., I.M.S. *Mat. Med.*—M. R. Guruswami Mudaliar, M.D. *Med. Jurispr.*—Lt.-Col. Dewan Ganapat Rai, I.M.S. *Midw.*—Major C. A. F. Hingston, I.M.S. *Ophth.*—Major R. E. Wright, I.M.S. *Path.*—Major W. L. Forsyth, I.M.S., on leave, Lt.-Col. M. N. Chaudhuri, M.B. and C.M., I.M.S. *Physiol.*—Major G. E. Malcomson, M.D., D.P.H., I.M.S. *Surg.*—Major R. G. G. Croly, I.M.S. *Biol.*—S. Rangachariar, M.B., C.M. *Chem.*—Major C. Newcomb, I.M.S. *Bio-Chem.*—V. K. Narayana Menon, M.B., B.S. 32 Lectrs. and Assts.

VIZAGAPATAM, *Medical College.* Principal—Major F. J. Anderson, I.M.S.

Engineering

MADRAS, *College of Engineering.* Principal—C. L. Cartwright, M.I.Mech.E., A.M.I.C.E., M.I.E.E. Profs.: *Civil E.*—G. Nagarathnam Aiyar, B.A., B.E.; K. C. Chakko, D.Sc. (Eng.) Lond. *Mech. E.*—L. Venkatakrishna Iyer, B.A., B.E. *Elec. E.*—H. B. Mathews, M.I.E.E., on leave, P. Subba Rao, B.A., A.M.I.E.E. Lond., A.M.I.E. Ind., acting. *Maths.*—K. R. Ramaswami Aiyangar, M.A., L.T. *Technical Chem.*—P. Narayana Goud, M.A., B.Sc. 17 Instructors.

Agriculture

COIMBATORE, *Agricultural College and Research Institute.* Principal—R. C. Wood, M.A. (on deputation); R. C. Broadfoot, N.D.A., C D.A. (Ag.), and 24 other Teachers and Investigators. Deputy Directors of *Agric.*: Live-stock—R. W. Littlewood; Planting Districts—D. G. Munro, B.Sc.

Oriental Learning

One Sanskrit College in Madras and eighteen in other towns are recognized as qualified to provide instruction for the Oriental Titles.

THE YEAR 1924–25

BENEFACTIONS. Rs. 350 (annual) for V. Krishnaswami Aiyar Lectures. Rs. 5350 for 4 medals and prizes.

NEW BUILDINGS. It was decided to construct new library buildings estimated to cost Rs. 10,00,000.

ORDINANCES relating to Examn. Boards were passed.

The 3rd session of the All-India Oriental CONFERENCE was held at the Univ., which contributed Rs. 1000 towards its expenses.

NEW AFFILIATIONS. In degree courses: Loyola College, Madras; Maharaja's, Trivandrum; Union Christian, Alwaye; St. Thomas', Trichur; Noble, Masulipatam; Sri Minakshi, Chidambaram; Medical, Vizagapatam; Bishop Heber, Trichinopoly; Madura; Maharaja's (Arts), Trivandrum; Maharaja's (Science), Trivandrum; Maharaja's, Ernakulam; St. Francis Xavier's, Palamcottah; Government Victoria, Palghat. In intermediate courses: Holy Cross College, Trichinopoly; St. Therisa's, Ernakulam; National Theosophical, Adyar; Government College, Coimbatore; St. Joseph's, Bangalore; St. Berchman's, Chenganacherry; Queen Mary's, Madras.

DEGREES. B.A., 1282 (48 women); B.A. (Hons.), 117 (7 women); M.A., 87 (3 women); Ph.D., 1; L.T., 175 (20 women); B.Sc.Agr., 10; B.Sc., 2; D.Sc., 1; B.E., 19; L.M. & S., 34; M.B. and B.S., 39; B.S.Sc., 3; M.D., 1; B.L., 432; M.L., 4.

STUDENTS. Full-time, total, 15,421; residing in recognized hostels, 7128; graduate students, 1372.

UNIVERSITY EXTENSION lectures on popular scientific subjects were delivered, two courses on Philosophy, one on Science, and the other on History; a course of Vacation Lectures on Maths.

UNIVERSITY OF MYSORE

CHANCELLOR—H.H. THE MAHARAJA OF MYSORE.

PRO-CHANCELLOR—H.H. SRI NARASIMHA RAJA WADIYAR, G.C.I.E., Yuvaraja of Mysore.

VICE-CHANCELLOR—BRAJENDRA NATH SEAL, M.A., Ph.D., D.Sc.

REGISTRAR—V. SUBRAHMANYA IYER, B.A.

LIBRARIANS—N. NARASIMHAMURTHI, M A., B L. ; R. SHAMA SASTRI, B.A., Ph.D.

CONSTITUENT COLLEGES

At Mysore

The Maharaja's College.
The Maharani's Women's College.

At Bangalore

The Central College.
The College of Engineering.
The Medical College.

PROFESSORS, ETC.

Anatomy

Mylvaganam, H. B., F.R.C.S. Eng. (Principal) Prof.
3 Demrs.

Archæology [Director.
Sastri, R. Shama, B.A., Ph.D.
2 Assts.

Botany [Prof.
Sampatkumaran, M.A., Ph.D.Chic.
1 Lectr., 2 Demrs.

Chemistry

Usher, F. L., B.Sc. Lond. Prof.
Srinivasa Rao, M. G., M.A. Prof.
3 Asst. Profs. and 3 other Teachers.

Economics, v. also Math.

Subba Rao, N. S., M.A. Camb., Barr.-at-Law (Principal) Prof.
1 Asst. Prof., 2 Lectrs.

Engineering

Ramaswami Iyer, S. A., C.E., B.E. (Principal) Prof. (Civ. E.).
Ramaswamy, E. K., B.Sc. Lond., A C.G.I. Prof. (Mech. E.).
Iyengar, N. N., B.A. Prof. (Elec. E.).
5 Asst. Profs., 2 Instructors.

English

Mackintosh, A. B., M.A. Ox., M.A. St. And. Prof.
Rollo, J. C., B.A. Ox., M.A. Glas. Prof.
Sell, F. R., M.A. Ox. Prof.
McAlpine, E. G., M.A. Edin. Prof.
Hensman, Mrs. S. G., M.A. Prof.
Srikantia, B. M., M A., B.L. Prof.
3 Asst. Profs., 2 Lectrs., 4 other Teachers.

French

Feuga, R., B.A. Lectr.
Collart, Father R. M. Lectr.

Geology

Sampat Iengar, P , M.A. Prof.
1 Lectr., 2 Demrs

Hindustani and Persian

Aga M. Abbas Shooshtry Asst. Prof.
2 Munshis

History

Venkatesvara Ayyar, S. V., M.A., L.T. Prof.
Sri Rukminiamma, K. D., B A. Prof. & Supt.
2 Asst. Profs.

Kannada
Krishnappa, B , M.A. Asst Prof
Venkannaia, T. S., M.A., LL B. Asst Prof.
3 Pandits.

Mathematics [Prof.
Narayana Iyengar, M. T., M.A.
3 Asst. Profs., 1 Lectr , 4 other Teachers.

Mathematical Economics
Madhava, K. B., M.A. Asst. Prof

Philosophy and Logic
Wadia, A. R., B.A. Camb., Barr.-at-Law Prof.
Gopalaswamy, M. V., B A , B Sc , Ph.D. Lond. Prof
2 Lectrs. and 1 other Teacher.

Physics
Metcalfe, E. P., B.Sc Lond. Prof.
Venkatesachar, B., M.A. Prof.
3 Asst. Profs. ; 2 Lectrs. ; 2 other Teachers.

Physiology [Prof.
Narayana Rao, B. K., B A., M.B., C.M., M.R.C.S., D.P.H., D.O.
1 Demr.

Sanskrit
Hiriyanna, M., M.A., L.T. Prof.
1 Asst Prof. ; 1 Lectr. ; 1 Tutor ; 4 Pandits.

Tamil and Telugu
4 Pandits

Zoology [Prof.
Narayana Rao, C. R., M.A., L.T.
1 Asst. Prof. ; 2 other Teachers.

Medicine

Lecturers (one in each subject) in Surgery, Medicine, Midwifery, Hygiene, Mat. Med., Pathology, Jurisprudence, Ophth., Mental Diseases, and Vaccination.

GENERAL INFORMATION (v. also p. 500)

This Univ. was founded in 1916 with two constituent Colleges, the Central Coll., Bangalore, and Maharaja's Coll., Mysore, which had for 25 yrs. been affiliated to the Univ. of Madras. To these have since been added the Women's and Professional Colleges. The executive government is vested in a Council of from 9 to 15 members, comprising the Vice-Chancellor, Inspr.-Genl. of Educn., Principals of Constituent Colls., Deans of Faculties, of Arts and Science, and member appointed by the Chancellor, or, if Govt. so direct, elected by the Senate from among its members. The Senate is charged with the organization of instruction, etc. It consists of from 40 to 70 members, including the Council, the Univ. Profs., and persons nominated by the Chancellor or elected with his approval. The capital cost of all the Univ.'s buildings amounts to Rs. 15,00,000.

LIBRARIES. Univ., 14,000 vols.; Colleges, 30,000; Sansk. and Oriental, 12,000 vols. and 10,000 MSS.

FACULTIES. Arts, Science, Medicine, Engineering, and Technology. TERMS: Jan.-April, July-Dec.

ADMISSION to B.A. or B.Sc. courses is normally by Entrance examn. in English, a second language, and three other subjects. Candidates prepare for this by an *extra* yr. of study in Collegiate High Schools after completing the ordinary High School course. Admission to the B.E. course is by the Entrance examn. with Phys., Chem., and Maths.; to the B.Com. course by the Entrance examn. or corresponding examn. of any other Univ.

DEGREE COURSES. 3 yrs.—B.A., B.Sc., B.Com.; 4 yrs.—B.E. (passed

candidates will be eligible to take the degree after a year's practical course in a recognized firm); 5 yrs.—M.B., B.S.; graduate course for M.A.—2 yrs., for B.T. 1 yr. after the B.A. or B.Sc. Course for M.Sc. not yet organized. The D.Lit. and D.Sc. are Honorary.

RECOGNITION OF DEGREES and examns. of other Univs.: (1) The B.A. Degree of other Indian Univs. is deemed equivalent to the B.A. of this Univ. and admits to its M.A. courses, provided the degree examns. have been passed in cognate subjects. (2) The B.A. or B.Sc. of other Indian Univs. is accepted for admission to the B.T. course. (3) The Interm. Examn. of any Indian Univ. = the 1st Year Certif. Examn. of this Univ. and admits to the 2nd year B.A. or B.Sc. class under certain conditions. (4) The B.A., B.Sc., M.A., M.Sc., and B.L. of the Dacca Univ. = the corresponding degrees of this Univ. and admit to corresponding privileges. (5) The degrees of the Lucknow Univ. = the corresponding degrees of this Univ. (6) The B.Sc. of the Aligarh Muslim Univ. = the B.A. of this Univ. for admission to higher courses in the subjects studied for the B.Sc.

RECOGNITION BY OTHER UNIVERSITIES. Calcutta: (1) B.A. and B.Sc. Mysore are admitted to Calcutta M.A. and M.Sc. courses equally with B.A. and B.Sc. Calc.; (2) holders of Mysore first year Certif. (with Physics, Chem., and Maths., *or* Zool., Geol., and Bot.) are admitted to Prelim. Scientific M.B. of Calcutta equally with students who have passed I.Sc. Calc.

Bombay: (1) Mysore B.A. are admitted to Bombay LL.B. course equally with B.A. Bom.; (2) Mysore first year Certif. = corresponding examn. of an Arts College affiliated to Bombay; (3) for admission to Bombay B.Com. degree examn. graduates in Arts or in Commerce of Mysore are on same footing as graduates in Arts or in Commerce of Statutory Indian Univs.

Madras: (1) recognition similar to Bombay (1); (2) Mysore B.A. (Science) and B.Sc. who have taken Physics, Chem., Biol., or Maths. for degree course are admitted to Madras medical courses.

Panjab: Mysore B.A. and B.Sc. are admitted to post-graduation study equally with B.A. and B.Sc. Panj.

Benares: (1) recognition similar to Calcutta (1); (2) First Year Cert. Examn. = Interm., Benares; (3) Mysore Entrance = Benares Admission; (4) Mysore First Year with Maths., Physics, and Chem. for admission to B.Sc. Engin., Benares.

Lucknow: Mysore degree examns. = those of Lucknow.

Dacca: Mysore degree = corresponding Dacca degree for admission to courses of study for degrees. This does not apply necessarily to degrees with honours.

Aligarh: all Mysore examns. are recognized. See also p. 106 and Appendix XXIII., *Oxford, Cambridge, and Scottish Univs.*

SCHOLARSHIPS for graduates, 6 of Rs. 20 p.m. and 6 of Rs. 15, including several for students belonging to "backward communities."

FEES for courses for Bachelorship, Rs. 60 p.a. (B.E., Rs. 100); M.B., B.S., Rs. 200.

RESIDENCE. Hostels at Colleges. Cost of living ranges from Rs. 252 to 312 p.a. at Mysore; Rs. 276 at Bangalore.

An APPOINTMENTS BUREAU is maintained.

INSPECTION OF SCHOOLS recognized by the Univ. is done by Profs. deputed by the Council.

THE YEAR 1924–25

BENEFACTIONS. K. Srinivasiengar, Rs. 7000 for medical educn.; friends of D. Kongadiappa, Rs. 1000; B. Nanjappa, Rs. 1000.

The MEDICAL COLLEGE opened in July 1924 was made over to the Univ. by the Govt. Rs. 113,000 was spent on equipment of laboratories.

NUMBER OF STUDENTS. Maharaja's College, 463; Central, 466; Maharani's, 11; Engineering, 148; Medical, 21. Arts, 474; Sciences, 466.

DEGREES CONFERRED. B.A., 162; B.Sc., 42; B.Com., 3; M.A., 9; B.E., 32.

A COURSE OF INSTRUCTION for the B.T. degree was instituted.

RECOGNITION of the B.A. and B.Com. degree examns. was accorded by the Univ. of Bombay for admission to its B.Com. degree examn., and of the B.A. and B.Sc. degree examns. by the Univ. of Paris for admission to candidature for its doctorate in Science or Art.

RESIGNATIONS. C. Sundararama Rao, Asst. Prof. of Economics, appointed to the Indian Financial Service.

STUDENTS. Full-time, 1199, including 18 women; resident in colleges or hostels, 240 (women—4); preparing for a first degree, 257 (women—2); graduate students, 46. DEGREES OBTAINED: B.A., 173 (women—2); B.Sc., 31 (w.—1); B.Com., 5; M.A., 13; B.E., 26.

UNIV. EXTENSION. 3 courses of lectures were delivered.

NAGPUR UNIVERSITY

VISITOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE CENTRAL PROVINCES.

VICE-CHANCELLOR—RAI BAHADUR SIR B. K. BOSE, K.C.I.E., M.A., B.L.

TREASURER—RAO BAHADUR V. M. KELKER, M.A.

REGISTRAR—K. D. PANDAY, M.A., B.Sc.

UNIVERSITY COLLEGE

LAW COLLEGE, NAGPUR. Principal—V. Bose, B.A., LL.B. Camb., Barr.-at-Law. Lectrs.—A. V. Wazalwar, B.A., LL.M. Bom.; K. K. Gandhe, B.A., LL.B. Alld.; D. W. Kathaley, B.A., LL.M., Advocate; and S. R. Dwivedi, M.A., LL.B.

OTHER COLLEGES ADMITTED TO THE PRIVILEGES OF THE UNIVERSITY

MORRIS COLLEGE, NAGPUR (M).*

HISLOP COLLEGE, NAGPUR (H).*

ROBERTSON COLLEGE, JUBBULPORE (R).*

VICTORIA COLLEGE OF SCIENCE, NAGPUR (V).*

SPENCE TRAINING COLLEGE, JUBBULPORE (T).*

KING EDWARD COLLEGE, AMRAOTI (K).*

AGRICULTURAL COLLEGE, NAGPUR (A).*

TEACHING STAFF

Agriculture [(A).

Allan, R. G., M.A., Dip. Ag. Camb.

Phatak, B. R., B Ag. (Poona) (A).

Takle, L.Ag., N.D.D. (A).

Subba Rao, B., L.Ag. (A).

Kartar Singh, L.Ag. (A).

Mishra, S. K., L.Ag. (A).

Dhanna Lal, L.Ag. (A).

Shrivastava Hiralal, L.Ag. (Poona) (A).

Arabic and Persian

Aga-Hyder-Hasan, Syed, M.A. Alld. (K).

Taqui, S. G., M.A. (R).

Iqbal Hussain, Quazi Syed, M.A. Panj. (M).

Ghani, M. A., M.A. (M).

Botany and Zoology

Pandit, B. R., B.Sc. Alld., M.Sc. Bom. (H).

Moghe, M. A., M.A. Alld., M.Sc. Bom. (Economics also) (H).

Gour, Ramdeen, B Sc. Alld. (H).

Dastur, J. F., M.Sc., D.I.C. (A).

Shrivastava, K. P. (A).

Dave, B. K., L.Ag. (A).

Nair, P. D., L.Ag. (A).

Chemistry

Mukerji, B., B.A., B.Sc. Camb. (Physics also) (V).

* (M), (H), etc.: symbols for reference to the Colleges.

Buxy, T. K., M.A., F.C.S. Lond. (V).
Tamhankar, G. R., M.Sc. (R).
Beckett, R. H., B.Sc. Lond. (V).
Godbole, S. N., M.Sc Alld. (R).
Surey, L. S., M.Sc. Alld. (K).
Kale, V. D., B.Sc. Alld. (H).
Gokhale, L. K., M.Sc. (Physics also) (V).
Chandorker, D. V., M.Sc. Alld. (Physics also) (V).
Annett, H. E., D.Sc. Lond. (A).
Iyer, A. R. P., B.A. (A).
Bal, D. V., L.Ag. (A).
Kayasth, R. N., M.Sc., B.Ag. Poona (A).
Guha, S. K., M.Sc. (A).

Economics, v. also Botany
Nanavati, M. H., M.A., LL.B. Bom. (K).
Naidu, V. S., M.A. Mad. (R).
Prentice, J. S., B.A. (H).
Sen Gupta, A. C., M.A. Edin. (M).
Dadachanji, B. E., M.A. (M).

Education
Macnee, E. A., M.A., Principal (on leave) (T).
Ghosal, S. C., B.A., B.Sc., LL.B. Alld. (T).
Hari Ram, B.A. (T).
Tamaskar, G. D., M.A. (T).
Jha, L. S., Rai Sahib, B.A., Acting Principal (T).
Kanetkar, G. G., M.A. (T).
Jog, T. B., B.A., L.T. Alld. (T).
Behere, N. K., M.A., B.Sc., L.T. Alld. (T).

English and History
Tostevin, F. P., M.A. Ox. (K).
Fernandes, T., M.A. Alld. (K).
Sells, A. C., M.A. Ox. (English) (R).
Rowlands, W. S., B.A. Ox. (English and Philos.) (R).
Sheo-Prasad, M.A. (English) (R).
Naolekar, N. R., M.A. (Sansk. and English) (R.)
Jwala Prasad, M.A. (Philos. and English) (R).
Pande, K. D., M.A. (Maths. and English) (R).
Gardiner, T. W., M.A. Camb. (H).
Patel, K. P , M.A. Bom. and Lond. (Maths. and English) (K).
Hoyland, J. S., M.A. Camb. (H).
Gadre, B. N., M.A. Alld. (H).
Cheshire, F. M., B.A. Camb. (M).
Ranganatham, N., B.A. Mad. (English) (M).
Ganguli, N., M.A. Alld. (English) (M).
Chordia, S., M.A. Alld. (English) (M).
Narayan, Hirde, M.A. Panj. (M).
Powar, B. L., M.A. Alld. (M).
Colaco, D. S., M.A. Mad. (English) (K).
Madan, Gopal, M.A. Alld. (English) (M).
Sinha, H. N., M A. Alld. (M).
Karkarey, S. B., M.A., LL.B. Alld. (A).
Paul, J. N. W., M.A. Alld. (R).

Entomology
Khare, J. L., F.E.S. Pusa. (A).

History
Hunter, G. R., M.A. Ox. (M).
Watchmaker, B. K., M.A. (R).
Saksena, N. C., M.A., LL.B. Alld. (R).

Indian Vernacular Languages
19 members of staff who also teach other subjects.

Law, v. *supra*—Univ. College

Mathematics, v. also English
Belekar, S. B., M.A. Bom. (M).
Mone, T. V., M.A. (R).
Garde, G. K., M.A. (H).
Dhar, S. C., D.Sc. Calc. (V).
Agnihotri, G. P., B.Sc. Alld. (Physics also) (H).
Verma, A. C., M.A. Alld. (R).
Iyer, K. S. S., B.E. Mysore (Survey also) (A).

* (M), (H), etc. : symbols for reference to the Colleges.

Modern European and Classical Languages

7 members of the staff who also teach English and History.

Philosophy, v. also Engl.

Ramanthan, P. S., M.A. Mad. (K).
Raju, J. B., B.Sc. Ox. (M).
Mukerji, J. N., M.A. Calc. (M).
Cornelius, M. A., B.D., Ph.D. Edin. (H).

Physics, v. also Chem., Maths.

De, M. L., M.A. Calc. (R).
Matange, D. G., M.Sc. Alld. (R).
Owen, M., M.Sc. (M).
Deoras, R. S., M Sc Alld. (V).
Thatte, V. N., M.Sc. Alld. (K).
Ranade, Y. B., M.Sc., L.T. Alld. (K).

Sanskrit, v. also English

Telang, H. K. S., M.A. (K).
Somalwar, S. G., M.A. Alld. (H).
Rampratap Shastri (M).
Mirashi, V. V., M.A. Bom. (M).
Jain, H. B., M.A., LL.B. Alld. (K).

Veterinary Science

Shukla, P. A. (A).
Nair, P. S. (A).

* (M), (H), etc.: symbols for reference to the Colleges.

GENERAL INFORMATION (v. also p. 500)

The University was established in 1923. The colleges (except the Agricultural College) were formerly affiliated to the Univ. of Allahabad. The authorities of the Univ. are the Court, Executive Council, Academic Council, Faculties, and Boards of Studies. The Univ. does not hold a Matriculation Examn, but admits students who have passed (*a*) the Final Examn. of the Central Provinces Board of High School Education, or an examn. recognized (with the consent of the Govr.-Genl.) as equivalent thereto, (*b*) the Matricn. Examn. of an Indian Univ.

FACULTIES. Arts, Science, Law, Education, and Agriculture.

DEGREES. B.A., B.Sc., B.Ag., M.A., M.Sc., D.Sc., LL.B., LL.M., LL.D.

THE YEAR 1924–25

BENEFACTIONS. Messrs. Tata & Sons, Ltd., Rs. 100,000, for the Univ. Building; Bequests: Pandit Deokinandan of Bilaspur, whole of his property valued at Rs. 58,000 towards scholarships, medals, and endowment of post-graduate study; Dewan Bahadur K. L. Paonasker, Rs. 17,000, for encouragement of higher education among Indian women of the province; R. G. Mote, Rs. 4000, for a scholarship for Berar students; V. M. Jakatdar, Rs. 5000, for purchase of Sanskrit books and an elocution prize; B. W. Joshi, Rs. 4000, to found a prize for essay in the Marathi language by a graduate; Rai Bahadur B. B. Gupta, Rs. 1000, for a medal; M. E. R. Malak, Rs. 2000, for endowment of two gold medals (one for a Muslim graduate); Rao Bahadur N. D. Wadegaonkar, Rs. 1500, for a gold medal in Sanskrit; Rao Bahadur N. K. Kelkar, Rs. 2000, for a prize in Science; several other donations for prizes, medals, cups, and shields.

NEW BUILDINGS. The new Univ. Office and Convocation Hall building (Rs. 2,50,000) was nearly completed. Erection of building for library (Rs. 80,000) was begun. For the library itself Rs. 50,000 was allotted.

NEW DEPARTMENTS. The Univ. College of Law opened in July 1925 with a staff of 5 professors.

OTHER IMPORTANT CHANGES. Pali and Prakrit were recognized as separate subjects of study; Hindi, Marathi, and Urdu were recognized as optional subjects for the B.A. (alternative to the classical language) and for the M.A. Examn.; Compartmental Examns. in the case of failed students in the Intermediate B.A., and B.Sc. Examns. were adopted; Extension Lectures were instituted; a Univ. Sports Tournament was held in December. Recognition of Colleges, etc.: Govt. Agricultural College at Nagpur in B.Ag. Degree Course; B.A. or B.Sc. Degree of any Univ. incorporated by law in British India; Morris and Hislop Colleges, up to M.A. and B.Sc. standard; Robertson College, up to B.A. and B.Sc.; Victoria College of Science, up to D.Sc. and M.Sc. in Maths.; the Training College, up to L.T. standard; and King Edward College, up to B.A. and Intermediate standard in Science.

DEGREES CONFERRED (1925): M.A., 13; M.Sc., 2; LL.B., 45; L.T., 18; B.A., 98; B.Sc., 24.

STUDENTS. Full-time, total 1463, including 6 women; preparing for a first degree, 1125 (women—6); graduate students, 338.

OSMANIA UNIVERSITY, HYDERABAD, DECCAN

PATRON—HIS EXALTED HIGHNESS THE NIZAM, G.C.S.I., G.C.B.E.

CHANCELLOR—NAWAB WALI-UD-DAULAH BAHADUR.

VICE-CHANCELLOR—Educational Member, Executive Council.

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PROFESSORS, ETC.

Botany

Saiduddin, B Sc. Asst. Prof.

Chemistry

Muzaffaruddin Qureshi, M.Sc. Panj , Ph.D. Berlin Prof.

Mahmood Ahmed Khan, B.Sc. All. Asst Prof.

1 Demr.

Economics

..... Prof.

Mohd. Elias Burney, M.A., LL.B. All. Asst. Prof.

H. Rahman, M.A., LL.B. All. Asst. Prof.

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Speight, E. E., B.A. Lond. Prof.

Syed Abdul Latif, B.A. Mad., Ph.D. Lond. Prof.

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History [Prof.

Haroon Khan Sherwani, B.A. Ox.

..... Prof.

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Mohd. Jamilur Rahman, M.A. Panj. Asst. Prof.

K. C. Roy-Saksena, M.A. All. Asst. Prof.

Najmul Huda, B.A. Patna Asst. Prof.

Languages (Ancient and Modern)

Wahiduddin Salim (Urdu) Prof.

Asst. Profs. :

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Abdul Hai (Arabic).

Syed Ibrahim (Arabic).

Syed Ashraf Shamsi (Persian).

Abdul Hamid Khan (Persian).

Syed Sajjad Husain, M.A. All. (Urdu).

C. N. Joshi, M A. Bom. (Marathi).

T. R. Rama Rao, B A Mad. (Kanarese).

R. Subba Rao (Telugu).

Hari Har Shastri (Sanskrit).

Dhareshwar, G., B.A. (Sanskrit).

Mathematics

Quazi Mohd. Husain, M.A. Panj., B.A., LL.B. Camb. Prof.

Kishan Chand, M.A. Camb. Prof.

Sh. Barkat Ali, M.A. Asst. Prof.

Philosophy

Khalifa Abdul Hakim, M.A., LL.B. Panj., Ph.D. Freiburg Prof.

Abdul Bari Ag. Asst. Prof.

Physics

Abdur Rahman Khan, B.Sc. Lond. Prof.

Wahidur Rahman, B.Sc. Calc. Prof.

Nasir Ahmed, M.Sc. All. Asst. Prof.

1 Demr.

Theology

Manazir Ahsan Gilani Asst. Prof.

Zoology

Babar Mirza, B.Sc. Asst. Prof.

Faculty of Muslim Theology

Abdul Qadir Siddiqi Prof.

Asst. Profs. :

Sher Ali (Philosophy of Islam).

Mufti Abdul Lateef (Quran).

Shah Mustafa Qadiri (Islamic Law).

Abdul Wasay (Hadith).

Syed Ahmed Husain (Logic).

M. Sibgatullah (Koranic Exegesis).

Faculty of Law

..... Prof.

Akbar Ali Musavi, B.A., LL.B. Bom. Asst. Prof.

GENERAL INFORMATION (v. also p. 500)

The University was established by a Firman (Order) of H.E.H. the Nizam, in April 1917. Actual tuitional work began in Aug. 1919, with the opening of the College. It differs from the other Univs. of India in that instruction throughout the college courses is imparted through the medium of Urdu, English being taught as a compulsory Second Language, while in other Univs. the medium of instruction is English. The Bureau of Translation which came into existence in Sept. 1917 has provided in Urdu all books required for the Interm. and B.A. examns. The executive government of the Univ. is in the hands of a Council consisting of 11 members. The organization of instruction rests with the Faculties and the Senate, which consists of from 40 to 60 members in addition to the Council, Univ. Profs., and representatives of graduates and Faculties. The Univ. is entirely financed by the State at an annual cost of £57,000.

LIBRARY. 19,000 vols., 763 MSS. The Staff have also access to the large Asafia Library.

BUREAU OF TRANSLATION. Curator, Md. Enayatullah, B.A., 15 Translators, Assts. and Advisers. Books published, 68 ; in preparation, 77.

FACULTIES. Arts (including Science), Law, and Islamic Theology. Faculties of Education, Engineering and Medicine under consideration.

TERMS. July to Dec. and Jan. to April.

The Univ. holds a MATRICULATION examn., but the Matricn. examns. of other Univs., the Senior Oxford and Cambridge Local examns. and the State H.S.L.C. examn. are accepted as equivalent. The B.A. COURSES extend over 4 yrs., with an Interm. examn. at the end of 2 yrs. The Interm. examn. of other Indian Univs. is accepted as equivalent to this. M.A. and LL.B. courses cover each 2 yrs. after graduation. The B.Th. requires a 4 years' course in English, Philosophy, and Muslim Theology.

FEES. Interm.—Rs. 60 p.a.; B.A.—Rs. 80 p.a.; M.A.—Rs. 100 p.a.; LL.B.—Rs. 80 p.a.

RESIDENCE. 4 hostels attached to the College. Cost of living about Rs. 180 p.a.

THE YEAR 1924–25

RECOGNITION OF COURSES AND EXAMINATIONS. Govt. of India recognized the degrees of the Univ. for the purposes of admission to the I.C.S. Examn. which is held in India.

The B.A. Examn. was recognized for admission to the Inns of Court. Intermediate and Degree Examns. of the Nagpur Univ. were recognized as equivalent to the corresponding Examns. of the Univ. on a reciprocal basis.

DEATH. Prof. Mahboob Ali.

HONORARY DEGREES. *LL.D.*—Sayyid Husain Bilgrami.

STUDENTS. Full-time, preparing for B.A., 204; graduate students, 113; total full-time, 631; resident in colleges or hostels, 139. Five students received scholarships for study in England. DEGREES OBTAINED: B.A., 81 (including 1 in Theology); M.A., 14 (1 in Theology); LL.B., 22.

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PATRON—H.E. THE GOVERNOR-GENERAL OF INDIA.

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REGISTRAR—P. N. DUTT, B A, R.B.

JOINT REGISTRAR—ISHWAR DAS, M.A., LL.B.

TEACHING STAFF, Oct. 29, 1924. [Return for 1925 not received.]

[(U.) = maintained entirely by the Univ.]

Arabic, v. also Persian

Md. Shafi, B.A. Camb., M.A. Prof. (U.).
Sadr-ud-din, D.Litt. Lectr.
Asghar Ali, M.O L. Lectr.
Najm-ud-Din Lectr.

Botany

Shiv Ram Kashyap, B.A. Camb., M.Sc., Rai Sahib, I.E.S. Prof.
Chaudhuri, H., D.Sc. Reader (U.).
Ghose, S. L., M.Sc., Ph.D. Lectr.
Mehr Chand Sethi, M.Sc. Lectr.

Chemistry, Physical

Bhatnagar, S. S., D.Sc. Prof. (U.).
Dunnicliff, H. B., M.A., Sc.D., F.I.C., I.E.S. Prof.
Yajnik, N. A., M.A., A.I.C. Lectr.

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Myles, W. H., M.A. Edin.

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Brij-Narain, M.A.
Wilson, J. L., M.A.
Lucas, E. D., M.A., D.D., Ph.D.

History

..... Prof. (U.).

Mathematics

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Chowla, G. S., M.A. Camb. Prof.
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Das Gupta, S. N., M.A. Lectr.
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Samuels-Lal, P., M.A. Lectr.
Ganguly, A. N., M.A. Lectr.
Dil-Muhammad, M.A. Lectr.
Honeybourne, Miss D. M., B.A. ,,

Persian

Md. Iqbal, M.A., Ph.D. Prof. (Arabic and Persian).
Maitra, K. M., M.A. Calc. Lectr.
Fazl-i-Haqq, Q., M.A. Lectr.
Ismail, M., M.A. Calc. Lectr.
Abdul Aziz, M. Lectr.
Muhammad-Shirani Lectr.

Sanskrit

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Raghubar-Dayal, M.A., M.O.L. Lectr.
Gulbahar-Singh, M.A., LL.B. Lectr.
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Zoology

G. Matthai, M.A., I.E.S. Prof.
Diwan Anand Kumar, M.A. Camb. Reader (U.).
Bihari Lal Bhatia, M.Sc. Lectr.

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Established in 1882, the University confined its activities, until recently, mainly to examinations, the control of affiliated institutions, and the provision of instruction in its Oriental and Law Colleges. It has since 1919 undertaken the maintenance of Professors and Readers and co-ordination of higher teaching in other subjects. Honours Schools in Arabic, Sanskrit, Persian, Botany, Zoology, Maths., and Chemistry, a combined Honours School in English, History, Economics, and Philosophy, and post-graduation teaching in Economics have been instituted in Lahore; and senior teachers in the local colleges, partially relieved of routine work, have supplemented the teaching of Univ. Profs. and Readers.

LIBRARY, 54,000 vols. (arranged on Dewey Decimal system). Chemical LABORATORY. Astronomical OBSERVATORY.

FACULTIES. Oriental, Arts, Law, Medicine, Science, Agriculture, Commerce.

DEGREES. B.A., M.A., D.Lit.; B.Sc., M.Sc., D.Sc.; B.Sc. (Agr.), M.Sc. (Agr.); LL.B., LL.D., LL.M.; M.B., B.S., M.S., M.D.; B.T.; (in Oriental Learning) B.O.L., M.O.L., D.O.L.

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The B.T. is open to any one who after graduating in any faculty other than the Oriental has undergone a 1 yr. course at an Affiliated Training Coll., or any trained S.A.V. graduate teacher not less than eighteen months after his passing the S.A.V. examn.

RECOGNITION OF OTHER INSTITUTIONS. An equivalent examn. of any recognized Univ. may be accepted in lieu of Interm. Arts or Science, B.A. or B.Sc., for the purposes of admission to a higher examn.

SCHOLARSHIPS FOR GRADUATES. Several of from Rs. 20 to Rs. 25 p.m. for 2 yrs. in Oriental Studies, Arts, and Science. Research studentships tenable for from 2 to 4 yrs. in Oriental Hist., Sanskrit, Pali or Prakrit, Arabic, Panjabi, Science.

RESIDENCE. Undergraduates in Lahore Arts Colleges are ordinarily required to reside in College Hostels or in hostels recognized by the Univ.

PUBLICATION. *Calendar* (Sept.), Rs. 5/8/0.

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[B.A., M.A., etc.—A., B., C., E., Ec., G., H., M., Ph., Ps., S., Z. =Affiliated up to B.A., M.A., etc. in Arabic, Botany, Chemistry, English, Economics, Geology, History, Maths., Philos., Physics, Sanskrit, Zoology.]

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LAHORE, *Dyal Singh College.* M.A.—M. Principal, and Prof. of *Maths.*—Hem Raj, M.A. *Philos.*—Amar Nath Bhasin, M.A.

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THE YEAR 1924–25. A combined Honours School in English, History, Economics, and Philosophy was started. *Honorary Degrees*: *D.Sc.*—Sir Jagadish C. Bose. *D.O.L.*—Sir Ramkrishna G. Bandarkar. *Students*: Full-time, in 3rd and 4th year classes, 2988, including 76 women; graduate students, in 5th and 6th year classes, 899 (women—3). Residing in colleges or hostels, 4165 (women—120). Attending Univ. Honours School classes, full-time, 26, part-time, 9. Total full-time students, including 1st and 2nd year, 10,221 (women—157).

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VICE-CHANCELLOR—S. SULTAN AHMED, Barr.-at-Law.

REGISTRAR—MAHESHWAR PRASAD, B.A. Alld.

UNIVERSITY READERS, 1925–26

S. C. Sarkar, M.A. Calc., D.Phil. Ox. (Education in Ancient India).

S. Radha Krishnan, M.A. Mad. (The Philosophical Basis of Hinduism).

N. R. Dhar, D.Sc., F.I.C., F.C.S. Lond. (Catalysis and Chemical change and Colloids).

GENERAL INFORMATION (v. also p. 500)

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HAZARIBAGH, *St. Columba's College.* B.A. Principal, and Prof. of *Eng.* —Rev. F. H. W. Kerr, B.A. (T.C.D.). Prof. of *Philos.*—H. G. S. Kennedy, M.A. Dub. Other Profs.: *Chem.*—H C. Mukharji, M.A. *Econs.*—P. C. Bose, M.A. *History*—J. N. Maitra, M.A. *Maths.*—R. N. Mukherji, M.A. *Pers.*—Md. Muslim, M.A., M.O.L. 7 other Profs.

PATNA *Training College.* B.Ed. Principal—J. H. Thickett, M.A. Camb. Vice-Principal—S. C. Sarkar, M.A., D.Phil., Dip.Ed. Ox. Profs.: W. W. Henderson, M.A., Dip.Ed. Glas.; Saiyid Tahiruddin Ahmad, B.A., L.T.; J. N. Ghosh, M.Sc., B.T.

PATNA *Law College.* B.L. Principal—S. S. Alam, M.A., LL.B. Camb., Barr.-at-Law. Vice-Principal—S. M. Shareef, M.A. Camb., Barr.-at-Law. Profs.: Ragho Prasad, B.A., B.L.; S. N. Sahay, B.Sc., Barr.-at-Law; Shiveshwar Dayal, M.A., B.L. 4 other Lectrs.

PATNA, *Bihar College of Engineering.* B.E. Principal—F. Walford, A.R.C.S., M.I.M.E., O.B.E. Senior Professor—J. Tullis, B.Sc. Glas. 12 other Profs. and Lectrs.

PATNA, *Prince of Wales' Medical College.* M.B., B.S. Principal—Lt.-Col. H. R. Dutton, M.R.C.P. Lond., M.R.C.S. (Eng.), D.T.M. and H. Camb. Prof. of *Biology*—S. S. Chandhury, M.A. Alld., M.Sc. Luck. 2 other Demrs.

(*b*) Admitted to Intermediate Standard

Patna New College, Bihar Sharif Nalanda College, Monghyr Diamond Jubilee College, Cuttack Ravenshaw Girls' High School, Interm. classes.

THE YEAR 1924–25

BENEFACTIONS. Public donations, Rs. 46,050, and Govt. grant, Rs. 50,000, for Library; Rai Br. Sukhraj Rai, Rs. 20,000, for Readership in Natural Science. MATRICULATION Regns. altered so as to encourage study of vernaculars. STUDENTS: Full-time, 2847 (including women—9), all preparing for first degree. Residing in hostels, 1060 (women—6). Graduate students, 938. DEGREES CONFERRED: M.A., 26; M.Sc., 4; B.A., 247; B.Sc., 24; B.L., 137; B.Ed., 21.

UNIVERSITY OF RANGOON

VISITOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF BURMA.

PRO-CHANCELLOR—The Hon. U. MAUNG GYEE, M.A. Calc., Barr.-at-Law.

VICE-CHANCELLOR—The Hon. Sir ROBERT S. GILES, M.A. Ox., Barr.-at-Law.

PRO-VICE-CHANCELLOR—The Hon. Mr. Justice J. A. MAUNG GYI, Barr.-at-Law.

REGISTRAR—A. CAMPBELL, M.A. Edin., I.E.S.

CONSTITUENT COLLEGES AND THEIR STAFFS

UNIVERSITY COLLEGE: Principal—D. J. Sloss, M.A. Liv., C.B.E., I.E.S.

Anatomy and Physiology

Lack, Major L. A. H., M.B., Ch.B. Edin., I.M S. Prof.

4 Demrs.

Biology

Meggitt, F. J., M.Sc., Ph.D. Birm., I.E.S. Prof.

Ghose, S. L., M.Sc., Ph.D. Lectr. in Botany.

1 Asst. Demr.

Chemistry

Peacock, D. H., M.A. Camb., M.Sc. Lond., F.I.C., F.C.S. Prof.

Goldsworthy, L. J., M.A. Ox., I.E.S. Lectr.

Venkateswaran, R., M.A. Mad. Asst. Lectr.

Ba, U., B.A. Calc., F.C.S. Asst. Lectr.

Pal, B. K., M.Sc. Asst. Lectr.

Hla-Baw, U. Asst. Lectr.

8 Demrs. and Asst Demrs.

Economics [Prof.

Jevons, H. Stanley, M.A. Camb., B.Sc. Lond., F.G.S., I.E.S.

Kaul, B. N., M.A. Asst. Lectr.

Mathew, K. C. Asst. Lectr.

Education

Clark, G. F., M.A. Glas., Ph.D. Jena, I.E.S. Prof.

Scott, Miss M. E., M.A. Edin., B.Ed. Edin., M.B.E., I.E.S. Lectr.

Engineering, Civil

Elgood, W. N., B.Sc. St. And., I.E.S. Prof.

English [Prof.

Luce, G. H., B.A. Camb., I.E.S.

Campbell, A., M.A. Edin., I.E.S. Lectr.

Fraser, W. G., M.A. Aberd., I.E.S. Lectr.

Hamer, D., M.A. Liv. Lectr.

Marshall, A., M.A. Ox. Lectr.

Kingsley, Miss M., M.A. Calc., B.T. Calc., B.A. Lond. Lectr.

Jembunathan, S., M.A. Asst. Lectr.

Gopalakrishna Aiyar, P. G., M.A. Mad. Asst. Lectr.

7 Tutors.

Forestry [Prof

Unwin, R., B.Sc. Lond., I.F.S.

Single, H. S., M.A. Ox.

Sutherland, J. W. R., I.F.S.

Geology and Geography
Stamp, L. Dudley, B A., D.Sc. Lond., A.M.I.P.T., F.G.S., I.E.S.
French, F. G. Lectr.
1 Demr.

History
Hall, D. G. E., M.A. Lond., F.R.H.S., I.E.S. Prof.
Aspinall, A., M.A., Ph D. Manc. Lectr.
Desai, W. S., M.A Bom., B.A. Camb. Asst. Lectr.
Ramalingam, S , M.A. Lectr.
2 Tutors.

Law
Eggar, A., M.A. Camb., Barr.-at-Law Prof.
Bilimoria, J. C., B.A. Bom., Barr.-at-Law. Lectr.
Mya-Bu, U., Barr -at-Law Lectr.
E-Maung, U., M A., LL.B. Camb., Barr.-at-Law Lectr.

Mathematics [Prof.
Owen, L. G., M.A. Ox., I.E.S.
De, K. P., M.A. Calc., I.E.S. Lectr.
Haldar, K. P., M.A. Calc. Asst. Lectr.
Ka, U., M.A. Asst. Lectr.
Thon, U. Po, M Sc. Asst. Lectr.
4 Tutors.

Oriental Studies
Tin, Pe Maung, M.A. Calc., B.Litt. Ox., I.E.S. Prof.
Cassim, A., B.A. Calc. Lectr. in Pali.
Ba-Kya, Mg., B.A. Calc. Asst. Lectr. in Burmese.
Akbar, Md Gulam, M.A. Calc. Asst Lectr. in Persian.
4 Tutors.

Philosophy
Ross, G. R. T., M.A. Edin., D.Phil. Edin., I.E.S. Prof.
Saunders, L. P., M.A. Camb., I.E.S. Lectr.
Das Purkayastha, N. C., M.A. Calc. Asst. Lectr.

Physics [Prof.
Ward, K. M., M.A. Camb., I.E.S.
Aiyar, N. C. Krishna, M.A. Mad., I.E.S. Lectr.
Asst. Lectrs. :
Basu, R. M., B.Sc. Lond.
Ramanathan Iyer, K. R., M.A. Mad.
1 Demr. and 3 Asst. Demrs.

Physiology, v. Anatomy

JUDSON COLLEGE : Principal—W. St. John, B.D., Ph.D. Chicago.

Biology
Gates, G. E., M.A. Harv.

Burmese and Pali Literature
Tun-Pe, Mg., M.A. Calc.
Chaudhury, R., M.A. Calc. (Pali).

Chemistry and Physics
Witnah, C. H., M.Sc. Chic.
Shivers, Marian E., M.A. Columbia.
Scherling, C., M.A. Calc., B.A. Camb.
Basak, B. K., M.Sc. Calc.
Guha, S. C., M.A. Calc.
Majumdar, N. C., M Sc. Calc.
Johnson, A. N., B.Sc.

English Literature [chester.
Gilmore, D. C., M.A., D.D. Rochester.
Crawford, R. N., M.A. Chic., B.D. Rochester.
Rickard, S. H., B.A Bucknell.
Hunt, Miss H. K., Ph.D. Dennison, B.Sc. Simmons, *Dean of Women.*
Gates, Mrs. H. B., M.A. Boston.
Crawford, Mrs. H. G., B.A. Dennison.
Whitnah, Mrs. M. P., B.A. Nebraska.

History
Tapa, James, M.A. Calc.
Forward, Miss M. R., B.A. Syracuse.

Mathematics
Van Horn, C. E., M.A., B.D.
Colgate.
Ba Sein, U., M.Sc.

Mental and Moral Science and Logic
St. John, W., B.D., Ph.D. Chic.
Hla Bu, U., M.A. Calc.

GENERAL INFORMATION (v. also p. 500)

This Univ., founded in Dec. 1920, is governed by a widely representative Council consisting of not more than 70 members, which exercises its functions by means of an Executive Committee of 10 members. The Council has the power to reject any act or resolution of the Senate (the academic body of the Univ.) in excess of its powers under the Univ. of Rangoon Act, 1920, and to confirm or reject any resolution presented by it affecting the income or expenditure of the Univ. or of a Constituent College. The Senate consists of the Vice-Chancellor, the Director of Public Instruction, Burma, the Principals of Constituent Colleges, the Professors, 3 members of the Council, and not less than 10 lecturers in constituent colleges. Its executive duties are discharged by a Standing Committee. The Act of 1920 was amended in 1924.

An estate of about 450 acres of high and healthy ground, adjoining the Victoria Lakes on the outskirts of Rangoon, has been acquired for the Univ. buildings. Both Constituent Colleges and the Halls of Residence attached to them will be accommodated on the estate, where Univ. teachers will be housed and provision made for playing-fields, and ample room will still be left for other professional and technical colleges.

LIBRARIES.—University, in process of formation; University College, 17,000 vols.; Judson College, 7000 vols.

DEGREES.—B.A. and M.A.; B.Sc. and M.Sc.; B.Sc.Civ.Engin.; B.Sc. Forestry; B.L.; M.B. and B S.

DIPLOMAS, in Teaching, in Economics, and in Forestry.

ADMISSION. Ordinarily by Matriculation or a pass in the Anglo-Vernacular High School examn. or the European High School examn. held by Educational Dept. in English, a Vernacular, Maths., and two optional subjects. Proficiency in English must be shown. The Univ. has access to the High School examination results and classes intending students: A class may matriculate; B class must undergo a preliminary year's study, which is mostly intensive work in English.

FEES for Examinations: B.A., B.Sc., Rs. 30; B.A (Hons.)., B.Sc. (Hons.), Rs. 40; M.A., M.Sc., Rs. 40; B.L., Rs. 40; M.B., Rs. 50.

THE YEAR 1924–25

BENEFACTIONS. A Chinese Assocn., Rs. 1000, anonymous, Rs. 1590, Ho Wah Kain, Rs. 1500, all for prizes.

NEW BUILDINGS. Students' Hall (cost Rs. 275,736); 3 Wardens' houses (Rs. 121,952). Provision made for a *University Building Trust* to control execution of seven years' building programme involving expenditure of Rs. 120 lakhs.

OTHER DEVELOPMENTS. Intermediate College at Mandalay under management of the Univ.

CHANGES IN REGULATIONS. "Compartmental" system of examn. for

B.A. abolished : students who fail now require to continue (or resume) study in a constituent college. New regulations for M.Sc. with Honours by research.

STUDENTS. Full-time, total, 1267 (including women—121) ; preparing for first degree, 1084 (women—109) ; graduate students, 59 (w.—6) ; students residing in colleges, 637 (w.—87). Part-time graduate students, 52 (w.—1). Pre-matriculation classes, 123 (w.—10). DEGREES OBTAINED : B.A., 24 ; B.Sc., 26 ; B.Sc. Forestry, 6 ; B.L., 9 ; M.A., 2 ; M.Sc., 4. Scholars pursuing studies in Great Britain, 4.

THE INDIAN INSTITUTE OF SCIENCE, BANGALORE

PATRON—H.E. THE VICEROY OF INDIA.

DIRECTOR—M. O. FORSTER, D.Sc , Ph.D., F.I.C., F.R.S.

TEACHING STAFF

General Chemistry

Watson, H. E., D.Sc. Lond., A.I.C. [Prof.

Krishnaswami, K. R., B.A. Mad. Asst.

Kulkarni-Jatkar, S. K., M.Sc. Bom. Asst.

Organic Chemistry

Simonsen, J. L., D.Sc. Manc., F.I.C. Prof.

Ramaswami Ayyar, P., M.A. Mad. Asst.

Sanjiva Rao, B., B.A. Mad. Asst.

Bio-Chemistry

Norris, R. V., D.Sc. Manc., F.I.C. Prof.

Ramaswami-Ayyar, C. V., L.Ag. Asst.

Banerjee, B , M Sc. Calc. Asst.

Srinivasiah, M., B.A. Mad Asst.

Electrical Technology

Catterson-Smith, J. K., M Eng. L'pool., M.I.E.E. Prof.

Mowdawalla, F. N., M.A., B.Sc. Bom. Asst. Prof.

Mechanical Engineering

Kann, J. H. C., B.Sc. Lond. Asst. Prof.

French and German

Amrita Row, K., M.A. Mad., L.T. Lectr.

GENERAL INFORMATION

The object of the Institute, opened July 24, 1911, is to establish Chairs and Lectureships in Science and Arts, especially with a view to the promotion of original investigations and their utilization for the benefit of India, and to provide and to assist in the provision of suitable libraries, laboratories, and all other necessary appliances.

Associateships are awarded on the recommendation of the Senate for 5 terms (of which there are 3 in a yr.—July–Sept., Nov.–Dec., Jan.–March) devoted entirely to research work; also for 3 terms *plus* a period of research elsewhere before or after the period spent at the Institute. *Fellowships* may be awarded to Associates who, having spent 5 yrs. in actual practice, produce satisfactory evidence of original and valuable research work, or other contribution to the advancement of scientific or industrial knowledge. *Certificates* are granted to students who satisfactorily complete approved courses of study. 44 Associateships have been granted.

Students reside in a *Hostel.* Messing charges are from Rs. 28 to Rs. 35 p.m.; rent, lighting, and service, Rs. 10 p.m.

PUBLICATIONS. The scientific work of the Institute is recorded in the *Institute Journal*, of which about 15 parts are issued annually; total 114.

POSTAL ADDRESS: Indian Institute of Science, Hebbal, Bangalore District. TELEGRAMS—Science, Bangalore.

THE YEAR 1924–25. *Number of Students and other Workers*: Genl. and Org. Chem., 60; Bio-Chem., 14; Elec. Tech., 35. *Current Expenditure*, Rs. 5,51,663.

CEYLON UNIVERSITY COLLEGE, COLOMBO

PRESIDENT—THE GOVERNOR OF CEYLON.
PRINCIPAL—R. MARRS, M.A. Ox., C.I.E.
REGISTRAR—Rev. W. S. SENIOR, M.A. Ox.

PROFESSORS AND LECTURERS

Botany
Ball, N G., M A. Dub. Prof.
..... Lectr.

Chemistry [Prof.
Rae, W. N., M.A. Camb., A.I.C.
Chandrasena, J. P. C., Ph.D. Lond., D.I.C., A.I.C. Lectr.

Classics
Cameron, D. J , M.A. Ox. Prof.
Senior, W. S., M.A Ox. Lectr.
Stone, W. A., M.A. Camb. Lectr.

Economics
Thomas, P. J., M.A. Madras, B.Litt. Ox. Lectr.

English
Smith, Leigh, M.A. Durh. Prof.
Hussey, D. M., B.A. Camb. Lectr.

French and German
Jansz, P. L., M.A. Camb. Lectr.

Geography [Lectr.
Robison, L. McD., B.A. Vict.

Modern History
Pakeman, S. A., M.A. Camb. Prof.

Mathematics
Suntharalingam, C., B.A. Ox., B.Sc. Lond. Prof.
Caspersz, U. D. R., B.Sc. Lond. Lectr.
Gulasekharam, F. H. V, M.A. Madras Lectr.

Philosophy
Cameron, D. J., M.A. Ox. Prof.

Physics
..... Prof.

Sinhalese, Sanskrit, and Pali
Suriyagoda, S. S., B.Litt. Ox. Lectr.

Tamil
Vinayakam-Pillai, S. A., M.A. Madras Lectr.

Zoology
..... Lectr.

GENERAL INFORMATION

As a preliminary step to the formation of a University for Ceylon, the College was established in 1921 by the Ceylon Govt. A College Council of 16 members nominated by the Governor of the Colony advise the Govt. on all important questions connected with higher education.

LABORATORIES. Botany, Chemistry, Physics, Zoology.

TERMS. July–Sept.; Oct.–Dec.; Jan.–April.

ADMISSION to the Ordinary courses is restricted to students who have passed the London Matricn. examn. or obtained exemption from it. Others may be admitted to Special courses on payment of admission fee, Rs. 10. Minimum age, 17.

DEGREE COURSES are provided for the B.A., B.Sc., and B.Sc. (Econ.), of the Univ. of London. By special arrangement the Univ. holds its Honours examn. in Ceylon in Engl., Classics, Hist., Philos., Maths., Chem., and Zool. A Pre-Registration course in Physics, Chem., and Biol. is provided for students of the Ceylon Med. College (v. *infra*).

ORIENTAL LANGUAGES. Courses are provided in Sanskrit, Pali, Sinhalese, and Tamil.

FEES FOR TUITION. Full Course—Rs. 150 p.a. *plus* Rs. 30 p.a. extra for each Science subject offered. Single Subject: Arts—Rs. 15 per term; Science —Rs. 25 per term.

RESIDENCE. Protestants, Roman Catholics, and non-Christians have hostels under College supervision. Cost of board and lodging, approximately, Rs. 40 p.m.

SCHOLARSHIPS FOR GRADUATES. The Ceylon Govt. offers 5 of £300 p.a., each tenable for 2 or 3 years in a British Univ.—one for Arts, one for Science, one for Agr. and Forestry, and 2 for Engineering. Candidates must have been resident in the Island for 5 years.

THE YEARS 1923–25. Rs. 4,500,000 and site of 95 acres allotted by Government for new University of Ceylon. *New Posts*: Asst. Lectrs. in Classics and in Maths.; Librarian. *Resignations*: Dr. J. Pearson, Very Rev. M. J. Le Goc, W. A. Samarawickrema. *Students*: in Arts, 101 (including women—9); Science, 107; Pre-Medical, 39; total full-time, 250. Residing in hostels, 96. Part-time, 4. *Degrees* obtained: B.A. (Lond.), 16; B.Sc. (Lond.), 19.

CEYLON MEDICAL COLLEGE

PRESIDENT—THE GOVERNOR OF CEYLON.

PRINCIPAL—Hon. J. F. E. BRIDGER, M.B., B.S. Lond., D.P.H. Lond., Director of Medical and Sanitary Services of Ceylon.

REGISTRAR—Prof. F. O'B. ELLISON, M.D., B.Ch., B.A.O., B.A. Dublin.

TEACHING STAFF

Anæsthetics, and Materia Med. and Therapeutics

de Silva, J., M.B., C.M. Aberd., D.P.H. Camb. Lectr.

1 Asst.

Anatomy [Lectr.

Cooke, G. F., M.D., B.S. Lond.

1 Demr., 1 Asst.

Bacteriology and Tropical Medicine

Nicholls, L., L.S.A. Lond., M.D., B.Chir., B.A. Camb. Lectr.

Children, Diseases of

Spaar, E. C., M.D., B.S., B.A. Lond. Lectr.

Anderson, Miss C. E., M.B., Ch.B. Aberd.

Electricity, Medical

Goonewardene, H. O., M.R.C.S. Eng., L.R.C.P. Lond. Lectr.

Forensic Medicine and Mental Diseases

Parsons, L. D., M.B, Ch.B. Edin. Lectr.

Gynæcology [Lectr.

de Zilwa, L., M.D., B.Sc. Lond.

Hygiene

Gunasekera, S. T., M.R.C.S. Eng., L.R.C.P. Lond., D.P.H. Lond. Lectr.

Infectious Diseases

Jacob, K. K., L.R.C.P. and S., L.F.P. and S. Glas. Lectr.

Materia Medica and Therapeutics, v. Anæsthetics

Medicine and Clinical Medicine

Mack, E. Garvin, M.D., B.S. Lond. Lectr.

Grenier, F., M.D. Edin. Clinical Teacher.

Midwifery
Peirir, H. M., M.D. Bruss., F.R.C.S. Edin. Lectr.

Ophthalmology
Joseph, H. P., M.R.C.S. Eng., L.R.C.P. Lond. Lectr.

Pathology
Karunaratne, W. A. E., M.D., B.S. Lond.
1 Demr.

Pharmacy [Lectr.
Pinto, C. F. X., M.P.S. Lond.

Physiology
Ellison, F. O'B., M.D., B.Ch., B.A.O., B.A. Dub. Prof.
1 Demr., 1 Asst.

Skin Diseases [Lectr.
Spittel, R. L., F.R.C.S. Eng.

Surgery and Clinical Surgery
de Silva, A. M., F.R.C.S. Eng. Lectr.
Alles, E. C., F.R.C.S. Eng. Lectr.
Gabriel, V., F.R.C.S. Eng., M.R.C.P. Lond. Lectr. (Operative S.).
Paul, S. C., M.D. Madras, F.R.C.S. Eng. Clinical Teacher.

Tropical Medicine, v. Bact.

The College, founded in 1870, is controlled by a Council composed of members nominated from the teaching staff of the College exclusively, together with the Principal Civil Medical Officer of the Colony and the Assistant P.C.M.O. and the Government Assessor. The control formerly exercised by the College Council over the Medical Profession in Ceylon, apart from Medical Education, was in 1925 transferred to the Ceylon Medical Council. The College is recognized by the General Medical Council—v. Appendix XI. A (*b*).

The Medical Department provides a 5-years' course for the L.M.S. (Ceylon): the Apothecary Department—a 2-years' course for the post of Government Apothecary or Estate Dispenser. Admission to the L.M.S. course is open only to students registered by the G.M.C., who are at least 17 years of age and have passed the London matriculation examn. or an exempting examn. and a special examn. in Chemistry, Physics, and Biology.

Tuition Fee, per annum, Rs. 500. Terms: Oct. 1–Dec. 23, Jan. 4–March 31, May 1–July 31. Number of students, about 200.

KING EDWARD VII. COLLEGE OF MEDICINE, SINGAPORE

PATRON—Sir LAURENCE N. GUILLEMARD, K.C.B.

PRESIDENT OF COUNCIL—A. L. HOOPS, B.A., M.D., D.P.H. Dub., Principal Civil Medical Officer.

PRINCIPAL—G. H. MACALISTER, M.A., M.D., D.P.H. Camb.

TEACHING STAFF, Oct. 1924. [Return for 1925 not received.]

[(P.-T.) = Part-time Lecturer.]

Anatomy
Harrower, J. G., M.B., Ch.B. Glas. Prof.
Ponnappa, S. W. Asst.

Bacteriology, v. Path.

Biology
Smedley, N., B.A. Camb. (P.-T.).

Chemistry and Physics
Jamieson, M., F.I.C. Lectr.

Eye Diseases, v. Surg.

Infectious Diseases
Dawson, W., M.B., Ch.B. Glas., D.P.H. Liv. (P.-T.).

Materia Med. and Pharmacy
Crawford, G. W., M.P.S.

Mental Diseases and Medical Jurispr.
Stone, E. R., M.B., B.Ch. Camb.

Medicine [Prof.
Webster, J. S., M.B., B.S., D.P.H.
The Principal Lectr. in Clin. Med.

Midwifery and Gynæcology
English, J. S., B.A., M.D., B.Ch., B.A.O., L.M. Dub. Prof.

Pathology and Bacteriology
Finlayson, G. A., M.A., M.B. Aberd., M.R.C.P. Lond. (P.-T.).
Tham Ying Khow, L.M.S. Asst. in P.

Physics, v. Chem.

Physiology and Pharmacology
Kay-Mouat, J. R., M.A. Ox., M.B., B.Ch., D.P.H., M.Sc. Bris. King Edward VII. Prof.
Nicholas, W. A., L.M.S. Asst.

Public Health
Brooke, G. E., M.A. Camb., L.R.C.S., L.R.C.P. Edin., D.P.H. (P.-T.).

Surgery
Black, K., F.R.C.S. Eng., L.R.C.P. Lond., L D.S, R.C.S. (Lectr. in Eye Diseases) Prof.
Smith, C. J., F.R.C.S. Edin. (Senr. Surgeon, Singapore) Part-time Prof.

Therapeutics
The Principal

Venereal Disease [Lectr.
Kelly, W., M.R.C.S., L.R.C.P.

GENERAL INFORMATION

This is a Government institution, partly endowed by public subscription, managed by a Council of Govt. officials and private members, with the Principal Civil Medical Officer as President, advised by a Senate composed of the professors and lecturers with the Principal as Chairman. Since its foundation 137 licentiates have passed out. It owes its name to a large donation from a King Edward VII. Memorial Fund, which enabled the Council in 1913 to endow a Chair of Physiology.

The *Diploma* in Medicine, Surgery, and Midwifery was recognized by the General Medical Council in 1916—v. Appendix XI.

Admission qualifications: (1) The Cambridge School certificate, with English (special Malayan paper), another language, and Maths. as compulsory subjects, and two of the following—Hist., Geog., Chem., Physics, Bot., Expl. Sc., Applied Maths.; or (2) certificates of equivalent standard, *e.g.* London Matricn., recognized by the General Medical Council as qualifying for registration as Med. students. Candidates must be of good physique.

TERMS. Trinity—June 1 to Aug. 31; Michaelmas—Oct. 1 to Dec. 20; Lent—Jan. 7 to March 25.

Composition FEE for complete 6-year course, covering tuition, hospital tickets, and examns. (except fees for re-examn.), $750.

RESIDENCE, ETC. Hostel for 72 students. There is a Students' Union.

THE YEAR 1923–24. Curriculum remodelled to conform with requirements of the G.M.C. Foundation stone of new buildings laid on Sept. 6, 1923. *Number of Students*, 140 (Tamils and other Indians, 61; Chinese, 50; Malays, 4; Eurasians and others, 25). *Licentiates*, 1924, 13.

UNIVERSITY OF HONG-KONG

PATRON—H.M. THE KING.

CHANCELLOR—THE GOVERNOR OF HONG-KONG.

VICE-CHANCELLOR AND PRINCIPAL—WILLIAM WOODWARD HORNELL, M.A., C.I.E.

CHAIRMAN OF CONSULTING COMMITTEE IN LONDON—Sir CHARLES S. ADDIS, K.C.M.G.

REGISTRAR—L. FORSTER, B.A.

PROFESSORS, LECTURERS, ETC.

Accounting & Business Practice
Messrs. Lowe, Bingham, and Matthews, C.A. Lectrs.

Anatomy [Prof.
Shellshear, J. L., M.B., Ch.M. Syd.
Wong, R. J., M.B., Ch.M. Syd. Tutor.

Biology
..... Lectr.

Chemistry [Prof.
Byrne, G. T., M.Sc. Manc., A.I.C.
Chan, J. C. L. Demr.

Chinese
Au Tai Tin (Hanlin) Lectr.
Lai Hsi Chi (Hanlin) Lectr.

Education
Smith, J. W. N., M.A. Prof.

Engineering, Civil and Mech.
Smith, C. A. Middleton, M.Sc. Birm., M.I.M.E., A.M.I.E.E. Taikoo Prof.
Fenwick, A. H., B.Sc., A.M.I.C.E. Lectr.
Morley, D. W., M.A. Camb. Lectr.
Redmond, F. A., B Sc. Lond. Prof. of Civil E.
Gittins, W. M., B.Sc. Demr. in E.
Yu Shiu Chu, B.Sc. Demr. in Mech. E.
Weller, F. C. Demr. in Civil E. 1 Workshop Instructor.

Engineering, Electrical [Prof.
Roffey, M. H., M.Sc., M.I.E.E.
Day, I., A.M.I.E.E. Demr.

English [Prof.
Simpson, R. K. M., M.A. Edin.
Fenton, J., Ph.D. Greg. Coll., Rome Lectr. & Tutor.
Hett, A. S., B.A. Ox. Lectr. & Tutor.
Hay, A. L. B., B.A. Lectr. & Tutor.

History [Lectr.
Romanis-Lee, J., M.A. Camb.

Mathematics
Brown, W., M.A., B.Sc. Glas., A.M.I.E.E. Prof.

Medicine and Surgery, v. *infra*

Physics
Faid, W., B.Sc. Durham Prof.

Physiology [Prof.
Earle, H. G., M.A., M.B. Camb.
Wong, S. Y., M.Sc., Ph.D. Columbia Tutor.

Political Economy
Hinton, W. J., M.A. Wales Dean and Prof.
..... Lectr.

Political Science
..... Lectr.

Medicine

Hygiene and Pub. Health
..... Lectr.

Medical Jurispr.
Minett, E. P., M.D., M R.C.S., D.P.H., D.T.M. & H. Lectr.

Medicine
Anderson, J., M.A., B.Sc , M.D. Glas., D.T.M. & H. (Eng.) Prof.
McKenny, C. W., M.D. Dub. Lectr.
Lim Eng Hac, M.B., B.S. Asst.

Obstetrics & Gynæcology
Tottenham, R E., B.A., M.D., Ch.B., B.A.O., F.R.C.P I., L.M., D.P.H. Prof.
Woo, Arthur W., M.B., B.S. Lond., M.R.C.S. Eng. Lectr.
Pillai, D. Kumarasamy, M.B., B.S., L.M. Rotunda Asst. to Prof.

Ophthalmology [Lectr.
Harston, G. M., M.D., D.O. Ox.

Pathology
Wang, C. Y., M.D. Edin., B.Sc. Manc., F.R.C.P. Edin., D.P.H., D.T.M. & H. Prof.

Pharmacology and Therapeutics
..... Lectr.

Surgery
Digby, K. H., M.B., B.S. Lond., F.R.C.S. Eng.
Prof. (Dean, Faculty of Med.).
Koch, W. V. M., M.D. Edin. Lectr.
Phoon, S. W., M.B., B.S., M.R.C.S. Eng. Asst. to Prof.

Tropical Medicine
Thomas, G. H., M.D., B.S. Lectr.

GENERAL INFORMATION

The College of Medicine for Chinese, founded in 1887 for the training of Chinese students in Western Medicine, was incorporated under the name of the Hong-Kong College of Medicine in 1907. It had no building of its own, and its teaching was conducted by permission in various hospitals and other institutions. Between 1907 and 1910 an Endowment and Equipment Fund of $1,280,000 was raised for a University to include Engineering and Arts as well as Medicine. The cost of the buildings and preparation of the site—$345,000—was borne by Sir H. N. Mody, the originator of the Fund. Other contributors were the Govt. of China, the Hong-Kong Govt., Swire & Sons, and other firms and Chinese residents of Hong-Kong, Canton, and other places. The Univ. was incorporated in 1911 and formally opened in 1912, when it took over the work of the College of Medicine. The buildings, including class-room accommodation for 500 students, three hostels, laboratories, etc., together with playing-fields, occupy an area of 25 acres. In 1919 were opened the Schools of Physiology, Tropical Medicine, and Pathology presented by three Chinese gentlemen. "The root idea of the Univ. is to provide a place for Higher Education where Chinese youths can remain under the influence of their own parents and guardians . . . subject to the strong control which Chinese opinion exerts upon young men, instead of being adrift in a foreign country where a liberty unknown to students in the East is allowed to undergraduates" (*Calendar*, 1919–20).

The Court is composed of life, *ex-officio*, and nominated members; the Council of 14-16, including the Chancellor, V.C., Colonial Secy., Univ. Treasr., Deans, Regr., Col. Treasr., Dir. of Educn., 2 Chinese members of Leg. Council, Secy. for Chinese Affairs, Chief Manager in H.K. of H.K. and S.B. Corpn., and a representative of the H.K. Ch. of Commerce. The Senate consists of the V.C., Dir. of Ed., Professors and Readers, Regr., and representatives of the H.K. Coll. of Med.

MUSEUM of Pathology and Trop. Med. LABORATORIES: Anat., Bact., Biol., Chem., Histol., Path., Physics, Physiol., Trop. Med.; Applied Mechanics, Materials, Elec. Tech., Power House, Hydraulics, Steam, Elec. Machinery, Elec. Traction, Engin. and Carpentering workshops. HOSPLS. in the vicinity available for clinics, 400 beds; Govt. Bacteriological Inst. and Mortuary.

FACULTIES. Medicine, Engineering, Arts.

TERMS. Jan.–March; April–May; Sept.–Dec.

MATRICULATION examn. (framed for use also as a School Leaving examn.) includes (*a*) English, (*b*) Maths., (*c*) Chinese Lang. and Lit., (*d*) Latin *or* a Classical Oriental Lang. other than Chinese, (*e*) Geog., (*f*) a Modern Lang. other than English or Chinese, (*g*) Mandarin, (*h*) Hist., (*i*) Physics, (*j*) Chem., (*k*) Higher Maths., (*l*) Trigonometry, (*m*) Mechanics, (*n*) Drawing. (*a*) and (*b*) are compulsory for all, and (*c*) for all Chinese candidates. It is necessary to pass in 5 subjects, and for the Med. Faculty these must include (*c*), (*d*) or (*f*), and (*e*) or (*h*). Medical students are registered after passing an examn. in physics, chemistry, and biology subsequent to general matriculation.

DEGREES. B.A., B.Sc. (Eng.), M.A., M.Sc. (Eng.), M.B., B.S., M.D., M.S. The standard aimed at is that of the Univ. of London. To qualify for admission to the Bachelor's degree examns. residence for 12 (in Med.—15) terms is necessary; the 5-years' medical course dates from registration as medical student (see preceding paragraph); 3 yrs. are devoted to clinical work subsequent to passing an examn. in anatomy and physiology.

The examn. for the Master's degree may be taken at the end of 2 yrs. after graduation as Bachelor. For the M.A. or M.Sc. a thesis is required; for the M.S., evidence of special post-graduate experience. The examn. for the M.D. may be taken 5 yrs. after graduation, or at the end of 2 yrs. if evidence is produced of special post-graduate experience.

Graduates of other Univs. who wish to become candidates for a Master's degree must work under the direction of the Faculty concerned for at least 1 yr.

The Degree of B.A. may be obtained in any one of 3 Depts. under 6 "groups" of studies. (*a*) *Pure Arts and Science*: Group 1, Letters; 2, Experimental Science; 3, Social Science. (*b*) *Training of Teachers*: Group 4 (*a*), Science and Maths.; 4 (*b*), General. (*c*) *Commerce*: Group 5, Commercial Training.

FEES for tuition, $300 p.a.; board and lodging, $300; Univ. Union, $15; books and charges for materials, etc., in Labs., about $60. It is claimed that there is no European Univ. where a foreign student can live so cheaply.

RESIDENCE. With the object of "developing and forming the character of students of all races, nationalities, and creeds," it is provided by the Ordinance of Incorporation that all students must reside in the quarters provided, or in hostels founded by religious bodies and conducted under regns. approved by the Council.

THE YEAR 1924–25. *Students*: Full-time, 328 (including women—18). Residing in hostels, 265 (women—15).

APPENDICES

I

REGULAR COMMISSIONS IN H.M. FORCES FOR UNIVERSITY CANDIDATES

Regulations issued with Army Orders for June 1924 provide for Commissions being granted in the Cavalry, R.A., R.E., Royal Corps of Signals, Infantry, Royal Tank Corps, and R.A.S.C., and in the Indian Army. Nominations of graduates who have certain prescribed qualifications are accepted by the Army Council from the following Universities: I. Oxford, Cambridge, London, Edinburgh, Manchester, McGill, Sydney, Toronto; II. The other universities of Great Britain and Ireland, except the National Univ. of Ireland. Univs. in Group I. have established courses of military study, and their candidates will be commissioned senior to candidates whose qualifications are in other respects equal. The grant of commissions in the Indian Army is limited to candidates from univs. in Great Britain and Northern Ireland. Commissions of accepted candidates will be antedated, according to qualifications as defined in a prescribed scale, to their 20th birthday or to a later date up to 21½ years of age.

Among the necessary qualifications are: Age at least 21 and not 24 on Jan. 15 or July 15 following nomination; unmarried; British subject and the son of British subjects, and, for British service, of pure European descent.

The regulations give full details of qualifications—general, academic, military, and physical, and a pamphlet (March 1924) on "The Advantages of obtaining Commissions in the Regular Army from the Universities" is also obtainable from the War Office.

For the present the Army Council are prepared to accept 100 candidates a year from the Univs.

Permanent Commissions in the Royal Air Force. The Air Ministry has provided on lines somewhat similar to Army Regulations for the nomination of candidates for permanent commissions in the Royal Air Force, who are prepared to undertake flying, technical and administrative duties in the General Duties Branch. Officers of this branch undertake all the combatant duties of the R.A.F., and are all required to be competent pilots. The maximum age is 25 on June 1 of the year of recommendation by the Univ. Candidates must have graduated. Graduates of any recognized Univ. of Great Britain and Northern Ireland are eligible for consideration. No special course of study is required, but preference is given to those who have read for a degree in mathematics or scientific or engineering subjects (including aeronautical engineering). Selected candidates will normally be attached during the long vacation to a Flying Unit for a period of 6 weeks on probation. A limited number of vacancies will be reserved for nomination by the self-governing dominions. Applicants from these dominions should

apply direct to their respective governments for particulars of the modified regulations applicable to such candidates.

Further information as to the entry and conditions of service in the R.A.F. is given in Air Publication 904, obtainable through any bookseller or from H.M. Stationery Office, or Air Ministry, Kingsway, London, W.C.2.

Medical Officers. Permanent commissions are given to officers selected from those holding short service commission in the R.A.F. A short service commission is for 3 years (which may be extended to 5 with the approval of the Air Council). The age limit is 28. Full particulars are contained in Air Publication 953.

II

INSTITUTE OF CHARTERED ACCOUNTANTS IN ENGLAND AND WALES

Incorporated by Royal Charter in 1880. *Address*—Moorgate Place, London, E.C.2.

The *Preliminary* examn. for persons wishing to become Articled Clerks is held in London, Manchester, Birmingham, and Newcastle-upon-Tyne about the middle of May and November. It embraces: Dictation and short English Composition, Arith., Algebra and Geom., Geog., Hist., a foreign language (Latin, Greek, French, German, Italian, or Spanish), and one of the following—Advanced Maths., Physics, Chemistry, Geology, Stenography. Exemption is allowed to persons who have passed certain other examns., including those numbered in the list on p. 626, 1, 2, 3: (provided the certificate shows the holder to have passed in Maths.), 4, 5, 6: and (provided the standard attained was " pass with credit " in at least 5 subjects, of which one was Maths., Arith. and Dictation not counting as separate subjects) 7, 8 (*b*), 9, 10, 11, 12, 13, and the Central Welsh Board School Certif. for Intermediate Examn. The minimum age for being articled is 16.

The *Intermediate* examn. for Articled Clerks who have served half of their term of service embraces Book-keeping and Accounts (including Partnership and Executorship Accounts and the Accounts of Limited Companies), Auditing and General Commercial Knowledge.

The *Final* examn. may not be taken until 2 yrs. have elapsed since passing the Interm., except that graduates articled for 3 yrs. only may take it 1 yr. after passing the Interm. No person may present himself for the Final unless he has served under Articles in England or Wales to a member for 5 yrs. (or, in the case of a graduate of a Univ. of the U.K., for 3 yrs.). It embraces Advanced Bookkeeping and Accountancy, including Costing and Taxation, Auditing, Partnership and Executorship Law and Accounts, Principles of Law of Bankruptcy

and of Law relating to Joint Stock Companies, the Rights of Liquidators, Trustees and Receivers, Principles of Mercantile Law and of Law of Arbitrations and Awards, and as an optional subject, either Banking, Currency and Foreign Exchanges, Actuarial Science, or Economics.

The *Fee* for admission to any of the examns. is 2 gs., and for Certif. of Exemption 1 g. Thirty days' notice is required, and late entries will only be accepted up to 15 days on payment of a late fee.

No person may be admitted as *Associate* (fee 10 gs) who has not passed the Final examn. The minimum age for admission is 21. Any person who, being an Associate, has for 5 yrs. been continuously in practice as a Public Accountant may be admitted as *Fellow* (fee 10 gs.). Distinctive Letters: F.C.A., A.C.A.

SOCIETY OF INCORPORATED ACCOUNTANTS AND AUDITORS

Incorporated 1885. *Address*—50 Gresham St., Bank, London, E.C.2. *Branches*: Glasgow, Dublin, Belfast, Montreal, Melbourne, Sydney, Cape Town, Johannesburg. Members (numbering upwards of 4350) are designated "*Incorporated Accountants*."

Examinations are held ordinarily in May and Nov. in London, Manchester, Leeds, Cardiff, Glasgow, Dublin and Belfast. 28 days' notice is required. They are also held in Australia and S. Africa.

The *Preliminary* (fee 1½ gs.) embraces English (General Knowledge, including main outlines of Modern Engl. History and General Geog.; Essay; questions testing knowledge and command of Engl.), either French or German or Latin, Maths. Exempting examns.: Matricn. of approved Univs. in the British Empire, and those numbered in list on p. 626, 1, 2, 7, 8 (*a*) or (*b*), 9, 10, 11, 12, 13, 14, 18 (Arts or Science), Army Qualifying, or, if it comprise Arith., Maths., Engl., one Lang., and one other subject—9*a* or 10*a* (Hons.), 16 (First-Class certif.), 19, 23.

The *Intermediate* (fee 2 gs.) embraces Book-keeping and Accounts, including Partnership and Executorship and Cost Accts., General Commercial Knowledge and Comml. Law, Powers and Duties of Liquidators, Trustees, etc.

The *Final* (fee 2½ gs.) embraces, in addition to these, Advanced Accounting; Auditing; Merc., Jt. Stock Co. and Bankruptcy Law; Statistical Methods; Economics.

Service under Articles of Clerkship (after passing or obtaining exemption from the Prelim. examn.) is a condition precedent to sitting for the Interm. and Final examns., subject to special regns. in favour of Clerks to Public Accountants of long service (9 yrs. before admission to the Final). The period of service under Articles is ordinarily 5 yrs., for a graduate of a Univ. of the U.K. 3 yrs. Clerks may sit for the Interm. examn. on the completion of 2 yrs.' service under Articles; for the Final during the 5th year.

Admission to *Associateship* (fee 10 gs.) is open to a Public Acctt., Principal Clerk to a P.A., Acctt. in service of the Govt. or of a corpora-

tion or public body, under certain conditions, who has passed the prescribed examns. Admission to *Fellowship* (fee 15 gs.—for Associates, 10 gs.) is open to a Public Acctt. in the U.K. or Overseas Dominions after continuous practice as such for 7 yrs. (in the case of an Associate, 3 yrs.), provided he has passed the prescribed examns. Distinctive initials: A.S.A.A., F.S.A.A.

Publications. Yearbook, 3s.; *Journal*, monthly, 12s. 6d. p.a.; *Examn. Questions*, 1s.

LONDON ASSOCIATION OF ACCOUNTANTS, LTD. (BY GUARANTEE)

Incorporated Jan. 1905. *Address*—87 Temple Chambers, Temple Avenue, E.C.4. 14 branches in British Isles and S. Africa. Members (about 2600) consist of Fellows (F.L.A.A.) and Associates (A.L.A.A.), and are designated "*Certified Accountant.*"

Examinations are held in June and December of each year as follows: Preliminary, Intermediate, and Final. The last embraces: Practical Accountancy; Methods and Machinery of Business; Partnership Law and Accounts; Economics; Company Law; Cost Accounts and Systems of Costing; Executorship Law and Accounts; Rights and Duties of Liquidators, Trustees, and Receivers; Statistics; Auditing; Income Tax Law and Practice. (Entrance Fees: £1 : 11 : 6, £2 : 2s., and £2 : 12 : 6.)

Admission to Membership. It is necessary to pass the Association's examns. and possess at least 5 years' practical accountancy experience in a responsible position.

Publications. Yearbook, 2s. 6d.; *Certified Accountants Journal*, 7s. p.a. (post free).

INSTITUTE OF COSTS AND WORKS ACCOUNTANTS

Incorporated 1919 as a Company limited by guarantee with the object, *inter alia*, of securing a definite professional status by means of a system of exams., etc., for persons engaged in occupations requiring knowledge of the cost of production, manufacture or sale of commodities. *Address*—6 Duke Street, St. James's, S.W.1.

Qualifications for membership as Fellow (F.C.W.A.) or Associate (A.C.W.A.): candidates for admission must be actually in practice as Cost Accountants, must be at least twenty-one years of age and must have had five years' practical experience; provided that (i.) for Associateship a candidate is eligible who has been for 3 years continuously in practice and (unless exempted by Council) has satisfied the Inst.'s examnrs. up to the "Intermediate" standard, and (ii.) for either Fellowship or Associateship a candidate, as to whose experience and qualifications the Council is satisfied, is eligible if he has satisfied the Inst.'s examnrs. up to the "Final" standard.

Persons actually employed in manufacturing concerns may be elected as "Student" members. Such members, if they have not already passed the Inst.'s "Preliminary" examn. or its equivalent, are required, unless exempted by the Council, to pass this examn. and thereafter the Intermediate as a condition of continuing as student members.

Articled Clerks of members of the Inst. are required to have passed or been exempted from the Preliminary examn. and to serve 4 yrs. (a graduate of a univ. of the U.K.—3 yrs.). Exemption from this examn. is granted to graduates of any Univ. of the U.K., and persons who have passed any of certain examns., among which are Nos. 1, 2, 3, 4*a*, 8(*a*), 9, 10, 16 of the list on p. 626 and, if taken at or below the age of 16, 9(*a*) and 10(*a*); also examns. for Comml. Certifs. of the Ox. and Camb. Schools Examn. Board, Univ. of Manc., London Chamber of Commerce (Higher) or Manc. Ch. of Com. (Senior) or certain other examns.

Subjects of the Prelim. examn. (fee, 1 g.): Maths., English Essay, Book-keeping, Elementary Mechanics, and a selected Modern Language. Interm. (fee 1½ gs.): Maths., Economics, Book-keeping, Workshop Knowledge, General Business Methods and Organization, Costing. Final (fee 2 gs.): Maths., Workshop Knowledge, Law subjects, and Costing.

Entrance fees for Fellows, 7 gs.; Assocs., 5 gs.; Annual subs. 3 gs. and 2 gs. Publications: *The Cost Accountant*, monthly. Examn. Papers, 1s.

INSTITUTE OF ACTUARIES

Established 1848. Incorporated by Royal Charter, 1884. *Address*—Staple Inn Hall, Holborn, London, W.C.1.

Examinations qualifying for membership are held in May of each year, or at such other times as may be prescribed by the Council. Candidates must give 14 days' notice. Applications for examination outside the U.K. must reach the Hon. Secretaries 2 months prior to the date of examn.

Candidates for *Studentship* must have passed: (1) one of the following examns. (v. list on p. 626)—Nos. 3, 13 (or an examn. similar to 3 or 13 at any Univ. in the Empire), 9, 10, or any other examn. approved by the Council; (2) Part I. of the Institute's own Examn. Syllabus (Advanced Algebra, Finite Differences and Elementary Calculus, and Elements of Statistics).

Candidates for *Associateship* must be "Students" and have passed Parts I., II., and III. of the Syllabus. Candidates for *Fellowship* must be Students or Associates and pass the 4 Parts of the Syllabus. *Examn. Fees*, 1½ gs. for each Part. Distinctive letters: A.I.A., F.I.A.

THE CHARTERED INSURANCE INSTITUTE

Founded 1897, and incorporated by Royal Charter, 1912. *Address*—11 Queen St., London, E.C.4. Membership consists of the members

of Local Insurance Insts., of which there are 38 in the U.K. There are also 7 affiliated Institutes in Toronto, Adelaide, Melbourne, Sydney, Perth, Cape Town, and Johannesburg. Examns. qualifying for Associateship (A.C.I.I.) and Fellowship (F.C.I I) are held in Feb. and March. Journal published annually.

III

INSTITUTE OF PUBLIC ADMINISTRATION

Established 1922 to develop the Civil Service and other Public Services (both national and local) as a recognized profession, and to promote the study of Public Administration in this and other countries. *Offices*—Palace Chambers, Bridge St., Westminster, S.W.1.

Regional Groups have been founded in Birmingham, Manchester, Edinburgh, Liverpool, Leeds, Nottingham (East Midlands), Sheffield, Newcastle, Glasgow, Pretoria (South Africa) ; and are in course of formation at Bristol, East Anglia, Carlisle, Cardiff, and Belfast. Monthly lectures for members and associates are held in the towns where Groups have been already founded, and at Montagu House, Whitehall, London. Courses of lectures are also given in connexion with the Universities of Birmingham, Manchester, Liverpool, and London. Subscription—Members, £2 : 2s. ; Associates, 10s. 6d. per annum, and 25s. for members outside Great Britain and Ireland. The *Journal of Public Administration* is published quarterly (annual subs. 10s. post free), and a members' circular (*Monthly Notes*) each month from Oct. to July.

IV

NATIONAL AGRICULTURAL EXAMINATION BOARD

Appointed by the Royal Agricultural Society of England (16 Bedford Sq., London, W.C.1) and the High and and Agricultural Society of Scotland (3 George IV. Bridge, Edinburgh), and including representatives of the Ministry of Agr. and Fisheries and the Board of Agr. for Scotland.

(i.) An examn. in the SCIENCE AND PRACTICE OF AGRICULTURE is held annually for the National Diploma in Agr. (N.D.A.). Qualifications for admission : a certificate from a recognized Agr. College that his attainments in General Botany and Chemistry, Geology, Physics, and Mechanics justify the candidate's admission ; or evidence of (*a*) having passed the 1st B.Sc. or Interm. examn. in Science of a British Univ. ; or (*b*) having passed examn. No. 9 or 10 (v. list on p. 626), with

evidence of having continued study of science for at least a yr., and a certif. in Elem. Chem. and Physics and Botany of Group H of the Oxford Higher Local or in Group E of the Cambridge Higher Local examn.; or (*c*) Interm. Leaving Certif. of the Scottish Ed. Dept., with evidence of having continued study for at least another year, and the Higher Leaving certif. in Science, including Chem and Botany. Before the Practical Agriculture Papers are taken, candidates must also produce evidence of having resided on a farm for a period (or 2 periods) covering a complete year of farming operations. The subjects of the written papers are Practical Agr.; Land Surveying and Farm Buildings; Farm Machinery and Implements; Agr. Chem., Botany, Book-keeping and Zoology; Vet. Sc. They may be taken all at one time, or 3, 4, or 5 in one yr. and the remainder the next yr. *Fee* (non-returnable) for entire examn., 6 gs. In 1926 the examn. will be held at Leeds Univ. in April; entries (which should be in prescribed form) close February 22.

(ii.) An examn. in the SCIENCE AND PRACTICE OF DAIRYING is held annually in England and in Scotland for the National Diploma in Dairying (N.D.D.).

Qualifications necessary for admission: (*a*) at least 6 session months' instruction (not necessarily continuous) in practical dairy work at an approved dairy training institution; also (*b*) at least 6 months on an approved dairy farm (not concurrent with period mentioned under (*a*); also (*c*) certificates in prescribed form from a recognized institution or institutions, of attendance on approved courses in Chem., Bacteriology, and Botany, and fitness for admission to the examn. The examn. includes tests of practical skill in Dairying and capacity for imparting instruction to others, as well as tests of the candidate's knowledge.

In 1926 the examns. will be at Reading and Kilmarnock in Sept. Entries (which must be in prescribed form) are receivable at the addresses given above up to Aug. 7. A candidate may not enter for the examns. both in England and Scotland.

Revised Regulations and Syllabus will come into force for the N.D.D. Examn. in 1927.

Examn. papers of past years may be had at 6d. a set. A detailed syllabus of subjects of examn. is also obtainable.

NATIONAL DIPLOMA IN HORTICULTURE

The Examns. for this Diploma (N.D. Hort.) were established in 1912 by the ROYAL HORTICULTURAL SOCIETY (Vincent Square, London, S.W.1.) with the approval of the Board of Agriculture. They are usually held in May and June in London and elsewhere. The *Preliminary* examn. is open to candidates who have received a sufficient general education, who are at least 21 years of age and have served at least 4 years in a public or private garden or nursery, or taken a 4 years' course in an approved Horticultural Institution, or spent 4 years partly in the former and partly in the latter way. The *Final* Examn. may be taken not less than a year later by candidates who have been regularly employed in the practice of Horticulture for not less than 6 years.

NATIONAL POULTRY DIPLOMA EXAMINATION BOARD

This Board, formed by the National Poultry Council, includes representatives of the Ministry of Agriculture, the Scottish Board of Agr., the Dept. of Agr. for Northern Ireland, Leeds Univ., S.E. Agr. College (Wye), Harper Adams Agr. College, Univ. College, Reading, and several other bodies. The Chairman is P. Hedworth Foulkes, B.Sc., late Principal of Harper Adams Agr. College, Newport, Salop. It holds examns. annually and awards a National Diploma in Poultry Husbandry (N.D P.).

Qualifications for admission to the Diploma examns. (fee 5 gs.): i. Passing the Board's Prelim. examn. (fee 2 gs.) in Elem. Chem., Physics, Biol., and Maths., or producing other satisfactory evidence, *e g.* Matriculation certificate, of knowledge of these sciences; ii. Training in Poultry Husbandry in a recognized Teaching Instn. for at least a year; iii. Experience on an approved Poultry Farm for at least a year. The subjects of the examn. are Poultry Husbandry in all branches and, in so far as they relate to this, Agr. and Horticulture, Physiology, Pathology, Chem. and Physics, Building and Appliance Construction, Bookkeeping. The next examn. will be held in Sept. 1926.

Applications receivable by the Secy., National Poultry Council, 20-21 Essex St., London, W.C.2.

V

ROYAL INSTITUTE OF BRITISH ARCHITECTS

Founded 1834. Incorporated by Royal Charter in 1837. *Address*—9 Conduit St., Regent St., London, W.1.

The Recommendations of the R.I.B.A. in regard to preliminary and professional education imply a course of professional training in schools occupying at least five years, during the last 2 yrs. of which the student would be working part-time in an architect's office—the training being kept under the supervision of the Board of Architectural Education of the R.I.B.A. or its delegates during the whole term.

Registration as Probationer, R.I.B.A. A candidate must submit a certificate of passing some recognized Public examn., or other evidence * of general education covering required subjects, and, unless he has passed an Entrance examn. in Freehand Drawing at one of the recognized Schools of Arch., evidence in the shape of drawings that he has an elementary knowledge of this subject. A list of the recognized schools is given in the following paragraph and particulars regarding them are given in an explanatory Pamphlet on examns., price 1s. Registration fee, 4 gs.

The *Intermediate* examn. (fee 5 gs.), open to Probationers of at least 19 yrs. of age, tests their progress while engaged as pupil, improver, or assistant in an office, and passing it qualifies for registration as *Student*, R.I.B.A. Exemption from this examn. (but not from the fee) may be granted, provided the work done during the session be submitted to and approved by the Board, or has been previously approved by the external examiners, to Probationers who have attended the necessary courses at one of the following schools: Architectural Assocn., London; Universities of Cambridge, Liverpool, London, Manchester, Sheffield; Birmingham School of Arch.; Armstrong College (Newcastle); Leeds Sch. of Art; The Technical College, Cardiff; Robert Gordon's Colleges, Aberdeen; Edinburgh College of Art and Heriot-Watt College; Glasgow Sch. of Arch.; Northern Polytechnic; McGill Univ.; Univ. of Toronto; Bombay Sch. of Art; Sydney Univ. The R.I.B.A. desires that Students within reach of these Univs. and Schools should avail themselves of the opportunities thus afforded rather than submit themselves for the examn. without such recognized training.

The *Final* examn. (fee 6 gs.) for the *Associateship*, R.I.B.A., is open to Students of at least 21 yrs. of age. Before admission a candidate must submit for approval designs in answer to at least 4 problems set by the Board, and a thesis in Historical Arch., or in Science as applied to building, or in Design, including Decoration. Exemption from the Final examn., with the exception of that portion which deals with

* Except in very special cases, other evidence will not be accepted after 1st October 1927.

Professional Practice, is given to Students who have completed successfully a Diploma or Degree course covering at least 5 years at the Arch Assocn., London, Liverpool Univ., London Univ., Manchester Univ., Robert Gordon's Colleges, Aberdeen, Glasgow Sch. of Arch., Edinburgh College of Art, McGill Univ., Sydney Univ.

A *Special* examn. (fee 10 gs.) for the Associateship is held in July and Dec. It is open to architects in practice not less than 25 yrs. of age and Chief Assts. over 30 yrs. of age exempted from the Prelim. and Interm. examns. and from submitting testimonies of study.

A *Licentiate* (L.R.I.B.A.) is a fully qualified corporate member, and is entitled to the designation "Chartered Architect."

Examns. (fee 3 gs.) qualifying for candidature as *District Surveyor* in London or *Building Surveyor* under local authorities are held in Oct.

Allied Societies and branches thereof exist in 34 towns in the U.K., in Montreal, Edmonton (Alta.), Hamilton (Ont.), Regina (Sask.), Vancouver (B.C.), Winnipeg (Man.), Adelaide, Melbourne, Brisbane, Sydney, Hobart, Perth, Wellington (N.Z.), Cape Town, Durban, Johannesburg, Nairobi, Singapore, Bombay, and Rangoon.

The R.I.B.A. (Henry Jarvis) Studentship, £250 for 2 years, tenable at the British School at Rome, is open only to British subjects who are Associates or Students R.I.B.A. Information regarding this and other Studentships and Prizes is given in a pamphlet.

The R.I.B.A. (Archibald Dawnay) Scholarships are offered for competition among students of Recognized Schools of Arch., and are intended to foster the advanced study of all forms of construction.

Publications include the *Kalendar*, 3s. 9d., containing, *inter alia*, a historical sketch, regns. for international and other competitions, and information about the allied societies. *Journal*, in 20 numbers annually, 1s. 6d. each number. *Explanatory Pamphlet on Examns.* 1s. and postage. *Past Examns. Questions*, price 1s. 6d. and postage.

VI

AUCTIONEERS' AND ESTATE AGENTS' INSTITUTE OF THE UNITED KINGDOM

Address—29 Lincoln's Inn Fields, London, W.C.2.

Examinations are held annually in March in London, Birmingham, Bristol, Cardiff, Manchester, Newcastle-upon-Tyne, and Belfast.

The Preliminary (fee 1 g.) is for the grade of *Student*, the Intermediate (fee 2 gs.) for the Grade of *Licentiate*, and Final (fee 3 gs.), or the Direct Final (fee 5 gs.), for the grades of *Associate* (A.A.I.) and *Fellow* (F.A.I.).

The subjects of the *Preliminary* are English Compn., Maths., Geog.,

Hist. of England, General Knowledge, one foreign language (Elem. Latin, French, Spanish, Italian, or German), and either Shorthand or Elem. Book-keeping. Exempting examns.: Matricn. of a Univ. in the U.K., Prelim. of Law Soc., Surv. Instn., Inst. C.A., Soc. of Inc. Acctts. and Audtrs., Special Army Ed. Certif., London Chamber of Com. (Comml.), those in the list on p. 626, numbered 7, 8 (*a*) and (*b*), 9, 10, 11, 12, 13, 13*a*, 14, 16. Minimum age, 16.

The *Intermediate* is open to Students and Articled Clerks and others who have gained practical experience. Minimum age, 19. The subjects are Book-keeping, Plans and Mensuration, Valuation Tables, Law of Landlord and Tenant, Dilapidations and Fixtures, and 2 out of 5 other subjects. Exempting examns.: London B.Sc. (Estate Management) Final, and, as regards some of the subjects, the Interm. B.Sc.; Cambridge B.A. (obtained on completion of Camb. Agric. or Estate Management course). After 1927 this examn. will be open only to those who have passed or been exempted from the Institute's Preliminary Examn.

The *Final* is open to persons who have passed or been exempted from the Interm.; the Direct Final, to persons not less than 25 yrs. of age who fulfil certain conditions as to practical experience. The subjects of the Final are: Valuations, Law of Vendors and Purchasers, Elements of Law of Receiverships and Mortgage, Arbitrations and Compulsory Purchase, Sanitation, Law and Practice of Rating and Taxation, Report Writing, and two out of a list of 6 other subjects. The Direct Final includes also the following from the Interm. list: Book-keeping, Plans and Mensuration, and Law of Landlord and Tenant.

Minimum age for admission to Student grade, 16; Licentiate grade, 19; Associate grade, 25; Fellow, 30. Candidates must also fulfil specified conditions as to practical experience.

Publications: Regns. and Syllabus with list of Text-books and particulars of Prizes and *Scholarships* (value up to £50), 1s. Last Examn. Questions, 2s.

THE COLLEGE OF ESTATE MANAGEMENT, 35 Lincoln's Inn Fields, London, W.C.2. Incorporated by Royal Charter. Instruction—daytime, evening, and by correspondence—in preparation for the examns. of the Auctioneers' Institute, the Surveyors' Instn., the Land Agents' Society, and the Univ. of London (B.Sc. degree). Principal B. W. Adkin, F.S.I., F.A.I., F.E.S., M.R.A.S.E., Barr.-at-Law. Directors of studies in Urban and in Rural Science and 16 other Lectrs. and Instrs.

THE LAND AGENTS' SOCIETY (INCORPORATED)

Address—12 Little College Street, London, S.W.1.

Qualifications for (1) Fellowship: Having passed the Society's examns. and being suitable in other respects (position and experience). The Council have special dispensing powers to elect as Fellows, without examn., Land Agents of exceptional standing and experience. (2) Qualified Associateship: Having passed the Society's examns. and having had at least 2 yrs.' practical experience other than as a pupil

paying a premium. (3) Associateship: Being a Pupil with a Land Agent who is, or is qualified to be, a Fellow or Qualified Associate.

Examinations annually in March. Entries up to Dec. 1. Fee for each Part, 4 gs. Part I. comprises Agric. (Elementary), Surveying, Agr. Law (Elem.), Taxation and charges on Land, Building Constn., etc., Forestry, Book-keeping. Part II. is of an advanced character to test practical knowledge. (Syllabus and Examn. papers, 2s.)

Journal, published monthly, 2s. 6d. to non-members.

VII

THE INSTITUTE OF BANKERS

Founded 1879. *Address*—5 Bishopsgate, E.C.2. Local centres in Birmingham, Blackpool, Bournemouth, Bradford, Brighton, Bristol, Cardiff, Derby, Exeter, Hull, Ipswich, Leeds, Leicester, Liverpool, Middlesbrough, Newcastle-on-Tyne, North Wales (two Centres), Norwich, Nottingham, Plymouth, Sheffield, Southampton, and Swansea. Subscription ½ g. to 2 gs. p.a.

Qualifications for election to Associateship: (*a*) 10 yrs.' service in a Banking Establishment, or (*b*) passing approved examns., or (*c*) being a graduate of a University and on the staff of a Banking Establishment. Ordinary members are elected from the staff of any Banking Establishment on the Council's list. Associates by examination may add to their names or signatures, " Cert. A.I.B."

Examinations, open to members only, (i.) For the Associate Certificate, held in April in London, the provinces, and abroad. Latest entry date—February 15th.* Subjects: Practice and Law of Banking, Economics, Engl. Compn., Comml. Geog, Foreign Exchange; optional —French, Spanish, Italian, Portuguese, German. The examn. is divided into two parts extending over not less than 2 yrs. Examns. *exempting* from Part I. in Practice and Law,—examns. for B.Com. of Bombay or Lucknow with Banking as special subject; in Econs.,— examn. by Prof. Knoop at Univ. of Sheffield. Certain certificates obtainable in Manchester, Leeds, Birmingham, Scotland, and Ireland are also recognized. (ii.) For Diploma in French, Spanish, Portuguese, Italian, and German, held annually in the spring. *Scholarships* entitling holder to spend 2 months in a bank abroad are awarded in connexion with the Diploma examns. *Classes* in preparation for the Language examns. are held by the Inst., and in preparation for all subjects by the local centres.

Courses of *Lectures* in Banking and kindred subjects are given during the winter in London and some provincial towns. *Library* (lending), 8000 vols. *Journal* monthly, Oct. to June, 1s. 6d. (15s. p.a., post free). *Examn. Questions* (1925), 6d. each part.

* For members outside Europe; January 31.

VIII

INSTITUTE OF CHEMISTRY OF GREAT BRITAIN AND IRELAND

Founded 1877. Incorporated by Royal Charter, 1885. *Address*—30 Russell Sq., London, W.C.1. *Library* of 3000 vols. *Laboratories*, available for use for examination purposes by other institutions as well as for the I.C.'s own examns. *Appointments Registers* of Fellows, Associates, Registered Students, and Laboratory Assts.

Studentship. Minimum age, 16. Annual subs., 10s. A candidate for admission must have passed an approved Prelim. examn. of Univ. matricn. standard in English, Elem. Maths., an approved foreign language, and either a second lang. or one of the following: Higher Maths., Engl. Hist., Geog., Bot., Chem., Geol., Mechanics, Physics, Zool., and must be undergoing a course of preparation and training for the practice of Chemistry in one of the teaching institutions recognized by the Council, or as a pupil of a Fellow of the Institute in a lab. or works approved by the Council. The approved Prelim. examns. include those in list on p. 626, numbered 7, 8 (*a*) and (*b*), 9, 10, 11, 12, 13, 13*a*, 14, 16, 18, 22; any examination admitting a student as a matriculated student of any University approved by the Council, and other corresponding Entrance examns. approved by the Council. The candidate should have passed in the compulsory subjects at one examn.

The institutions recognized for the training of candidates for the Examns. of the I.C. are those in connexion with the Univ. of London shown on pp. 102, 169—(U.), (K.), (Im.), (Bk.), (EL.), (2), (5), (8), (10) (evening), (11), (12), and East Ham Tech. Coll.; Armstrong Coll., Newcastle; Constituent Colls. of Wales and of N.U.I.; all other Univs. in the U.K.; Univ. Colls., Exeter, Nottingham, Reading, and Southampton; Belfast, Birmingham and Blackburn Munic. Tech. Schools, Bradford City Tech. Coll., Huddersfield Tech. Coll., Leeds Central Tech. Sch., Loughborough Tech. Coll., Salford Royal Tech. Inst., Cardiff Tech. Coll, R. Tech. Coll. Glasgow, Heriot-Watt Coll., Paisley Tech. Coll., C.Sc.I.; Overseas Univs.—McGill, Queen's Univ. (Ontario), Toronto, Adel., Melb., Syd., W. Aust., Univ. of N.Z., Cape Town, Univ. of South Africa—Constituent Colls., Stellenbosch.

The compulsory subjects of training are Chem., Physics, and Maths., the course in Chem. extending over 4 yrs. Evening class training is recognized if the candidate is engaged in the practice of Chem. during the day and attends a systematic course previously approved by the Council extending over 5 yrs., and is recommended by his teachers. Evidence of having passed the class or other examns. is required.

The A.I.C. examn. in General Chemistry (inorganic, organic, and physical), fee 5 guineas, occupies 6 days, including 4 days of practical Chemistry, and is open to students who have completed the prescribed training or have obtained a degree including the necessary subjects, and worked for a further year in a recognized Univ. or Coll., or for 2 yrs. with a Fellow in a lab. or works approved by the Council, or have been otherwise trained to the satisfaction of the Council and been engaged in the study and practice of Chem. for 8 yrs. The A.I.C. may be granted (without examn.) to graduates with 1st or 2nd Class Hons. in Chem., or holders of diplomas recognized as equivalent, who

have completed a 4 yrs.' course in the requisite subjects or a 3 yrs.' course supplemented by approved experience in laboratories or works. The Institute recognizes the Final B.Sc. with 1st or 2nd Class Hons. in Chem. of all Univs. of the U.K., of McGill, Toronto, Adelaide, Melb., Syd.; the Final M.A. of the Univ. of Cape Town with Chem. as principal subject, and the Final B.A. of Toronto with 1st or 2nd Class Hons. in the graduating Dept. of Chem. and Mineralogy. Applications from candidates having diplomas of a specialized character will be decided on their merits. Entrance fee, 2 gs. Annual subsn., 1½ g.

The F.I.C. examn., fee 10 gs. (for Associates, 5 gs.), occupies at least 5 days in any one of the following branches: Inorganic with Sections, Mineral Products, Metallurgy, Manufactured Products; Physical; Organic; Agricultural; Foods and Drugs and Water; Bio-Chemistry; Chem. Engineering. It is open to Associates of 3 yrs.' standing; in exceptional cases to other candidates who have been systematically trained and had considerable experience. The F.I.C. may in exceptional circumstances be granted without examn. to Associates of 3 yrs.' standing who have carried out original research or devised processes or inventions or given other sufficient evidence of knowledge and ability. Entrance fee, 5 gs. Annual subsn., 2 gs.

Arrangements have been made between the Board of Education and the Institute for the award of national certificates in chemistry to students in technical schools and colleges in England and Wales (Rules 100, 1921, 2d.). Under this scheme the Institute in conjunction with the Board approves schemes of training submitted by the technical schools or colleges, for the award of certificates for part-time grouped courses, including in addition to chemistry suitable courses in physics, mathematics, and cognate subjects. Courses for Part-time Course certifs. are designated *Senior* for the Ordinary and *Advanced* for the Higher certif. A similar scheme is in operation in Scotland, in conjunction with the Scottish Education Department, and a further scheme will shortly come into operation in conjunction with the Ministry of Education, Northern Ireland. Holders of Advanced Part-time Certificates can ascertain from the Registrar of the Institute how far their training may be recognized as qualifying for admission to the examn. for its Associateship.

Publications. Register of Members; Regns. for Admission; Examn. Papers, 1s. a set; *List of Official Chemical Appointments*, 5th edition, Jan. 1924, 5s. net. (This includes a *List of Societies and Institutions* directly interested in the advancement of Chemical Science and Technology, with information as to their chief objects.) *Journal and Prodgs.*, 6 parts annually, 2s. each; *History of Inst.*, 15s.; *Lectures* (monographs on various industries—Branches of chemical practice, etc.) at various prices.

CHEMICAL SOCIETY

Address—Burlington House, London, W.1. Professional qualification not required. Entrance by ballot, annual subs. £3. Library, 28,000 vols. Monthly Journal and Abstracts. Annual vol. of Reports by eminent men on recent progress. Research Fund from which grants are made (in 1924 they amounted to £844) for purchase of special materials for research.

IX

INSTITUTION OF CIVIL ENGINEERS

Established 1818. Incorporated by Royal Charter, 1828. *Address*—Great George St., Westminster, S.W.1. *Telegrams*—Institution, London.

Examinations, (i.) Preliminary and (ii.) Associate Membership, are held annually in April and Oct. in London. Entries receivable up to Feb. 28 and Aug. 31. The April Prelim. and Oct. A.M. may also be held, the former in Manchester, Glasgow, and Newcastle-upon-Tyne, the latter in the King's Dominions overseas. (i.) may also under certain conditions be held overseas.

For admission to (i.) nomination by a corporate member is necessary, and conditions relating to practical training have to be fulfilled. It includes English, Maths., and 2 (which must not both be languages) of the following subjects: Elem. Chem., Elem. Mechanics, Elem. Physics, Latin, Greek, French, German, Ital., Span., Port., Dutch, Hindustani, Russian.

Admission to (ii.) is open to (*a*) *Students* of the Instn. (v. *infra*) of at least 1 yr.'s standing between ages 21 and 26, and (*b*) persons of at least 25 yrs. of age who have passed or are exempt from (i.) and are in other respects (training, experience, etc.) qualified for election into the Institution. It includes papers in (A) Mechanics, Strength and Elasticity of Materials, *either* Theory of Structures *or* Theory of Elec. and Magn.; (B) 2 out of 9 other subjects; and (C) Engin. Drawings, Specifications, and Quantities, and, unless candidate has previously qualified therein, a modern Foreign Lang.

For admission as *Student* age must be between 18 and 25, and candidate must be recommended by a corporate member under whom he is or has been in course of preparation and training in accordance with the Instn.'s prescriptions. A candidate for election as *Associate* Member must satisfy the Council as to his training and experience, and must, unless exempted, pass (i.) and (ii.). Exemption from (i.) is granted to graduates of any Univ. of the Empire, and Whitworth Scholars and, subject to provisos, persons who have passed certain school and matriculation examns. in Great Britain and Ireland, Canada (McGill Univ.), Australia, New Zealand, and South Africa. Exemption from sections (A) and (B) of (ii.) is granted for the following degrees if taken after 3 yrs.' study in the several Univs. in accordance with their regns.: Oxford B.A. with Hons. in Engin. Sc. Final Hons. Sch.; Camb. B.A. Hons. Mech. Sc. Trip.; B.Sc. in Engin. of Edin., Glas., St. And., Belf., S. Africa, and Cape Town; B.A.I. of Dublin; and, subject to certain qualifications, engineering degrees of all the other Univs. of England and Wales, and of McGill, Adelaide, Melbourne, Queensland, Sydney, and New Zealand.

Members and Associate members are entitled to the designation *Chartered Civil Engineer.*

Publications. Report on Methods of Educn. and Training of all Classes of Engrs., 1906, Wm. Clowes, 94 Jermyn St., S.W.1, post free, 11d.; *Report of Confce. on Educn. and Training*, June 1911; Papers and Reports on Technical Subjects.

INSTITUTION OF ELECTRICAL ENGINEERS

Founded 1871. Incorporated by Royal Charter 1921. *Address*—Savoy Place, Victoria Embankment, London, W.C 2. *Telegrams*—Voltampere, Phone, London.

Examinations are held in London and other centres in Great Britain twice annually, namely, in April and October, of candidates for *Associate Membership*. Applications should reach the Secy. not later than Feb. 1 and Sept. 1 respectively. Examns. may also be held abroad at the discretion of the Council. Part I. of the examn. includes English essay or translation into English from French, German, Italian, or Spanish; Applied Mechanics, Electricity and Magnetism; and either Heat, Light, and Sound or Chem. Part II. consists of papers on technical subjects only.

A candidate for the Associate Membership is required, unless exempted, to pass the examn. or to present a thesis, paper, or other written work on Electrical Engineering or its applications. He must also be at least 25 years of age or have been a Student of the Institution for at least 3 yrs., must be engaged in one of the branches of El. Eng., and satisfy the Council as to his experience, etc.

Exemption from Part I. of the examn. is granted to candidates who have passed an Intermediate examn., including maths. and physics, of any Univ. in the U.K. or Colonies, and exemption from the whole of the examn. to persons who have obtained: any Engineering degree in Elec. Eng. subjects of any Univ. in the U.K. or the Colonies; Diploma in Engin. of R.C.Sc.I. or (in E.E. subjects) of Univ. of Liverpool; Diploma or Certif. in E.E. of the City and Guilds (Engin.) Coll., or King's Coll., London; Diploma in E.E. of Univ. Coll. London, Leeds Univ., Faraday House, Heriot-Watt Coll. Edin., Roy. Tech. Coll. Glas., Armstrong Coll., Technical Coll. Bradford, S. African Coll.; Day Course Associateship in E.E. Sheffield Univ.; Day Course certif. in E.E. of Finsbury Tech. Coll.; 4 yrs.' E.E. Day Course certif. of Northampton Polyt. Institute, London; Full-time Diploma in E.E. of the Battersea Polytechnic; Honours Diploma of Loughborough Coll.; Day Course Certif. of Technology in E.E. of Manc. Municipal Coll. of Tech. or Inst. of Science, Bangalore, India. The Final or Hons. grade certif. in E.E. of the City and Guilds of London Institute exempts from Part II.

National Certificates and Diplomas are awarded by the Institution and the Board of Education jointly on lines similar to those for Mechanical Engineers, v. *infra.*

INSTITUTION OF MECHANICAL ENGINEERS

Established 1847. *Address*—Storey's Gate, St. James's Park, London, S.W.1. *Telegrams*—Mech. Parl., London.

Examinations are held in London and at provincial centres in April and Oct., and at overseas centres in Oct.: (i.) *Studentship* (minimum age, 16), including papers in English, Elem. Maths., Elem. Mechanics, and either Physics or Chem. (ii) *Associate Membership* (A.M.I.Mech.E.) including—Section A: a Modern Lang., App. Maths., Physics and Chem.; Section B: Theory of Machines and Machine Design, Properties and Strength of Materials, and an optional technical subject; also Section C: The Economics of Engineering.

A candidate for election as *Graduate* must, unless exempted (*see below*), have passed Sections A and B of examn. (ii.), and have received or be receiving regular training as a Mechanical Engineer, and have received or intend to obtain sufficient practical and scientific training to fit him for employment in a responsible position. Minimum age, 21.

A candidate for election as *Associate Member* must be a practising Engineer at least 27 yrs. of age. The passing of the A.M. or equivalent examn. is an indispensable qualification up to the age of 33, and he must, in addition, have been regularly trained as a M.E. and have had sufficient practical experience in the direction or design of Engineering work.

Examns. exempting from (i.)*: Graduateship of any Univ. in the Empire; any of those on p. 626 numbered 3, 4 (Engin.), 5, 6 (provided either Mechanics or Chem. is covered by the Certif.), 7 (provided it has been taken by an Internal student of Birm., Leeds, Liv., Manc., or Sheff., and a Pass with Credit obtained in Engl. Comp. and Lit., Maths., and 2 of Mechanics, Physics, Chem.), 8 (*a*) (provided candidate passed in Physics either as a Group or as a Subsidiary subject—not in combination with Chem.), 9 or 10 †, 11 (if covering requisite subjects of Studentship examn., v. *supra*), 13‡, 13 (*a*), 14†, 15 (*a*) (Engin.), 15 (*b*) (Engin.), 15 (*c*), 17 (provided a foreign language was taken), 18, 19†, 20 (Engin.), 21 (if including English, Hist., Geog., Maths., and either Nat. Philos. or Physics), 22; Matricn. (Engin.) of Birm., Liverpool, or Hong-Kong; S. Africa Matricn.; Instn. C.E. Preliminary; Naval Cadets passing-out; Whitworth Scholps., Exhibns., and Prizes.

Examns. exempting from Section A and Section B of examn. (ii.): Engineering Degrees of any Univ. in Gt. Britain, Ireland, British Dominions, or India, except such as may be specifically excluded; Camb. B.A. Hons. in Eng. and, if Spl. examns. in Eng. Sc. and in either Chem. or Physics were passed, or under new Regulations, Engineering I. and II., with another subject from a list, the ordinary B.A.; Manc. Certif. in Technology, Mech. or El. Eng.; Eng. Degree of a

* Revised list of exemptions received too late for press.

† If the certif. covers a physical science subject.

‡ If the certif. covers Elem. and Adv. Maths., Hist., and Geog., and either Mechanics or Chem. or Elem. Physics.

Foreign Univ. if recognized by the Council, Diploma in Eng. of Univ., King's, or City and Guilds (Engin.) Coll., London; Dipl. or Higher Certif. (3 yrs.' course) of City and Guilds of Lond. Inst. if taken by matricd. student; Final Dipl. in Mech. or El.E. of R.T.C., Glas., if approved Matricn. examn. passed before beginning course; R.N. examn. qualifying as Lieut. (E.); R.N. College Prof. Certif. for Constructors; Inst. C.E., Assoc. M.; Whitworth Scholps. and Exhibns. The above do not exempt from Section C. A degree in Commerce of a British Univ., however, exempts from this paper.

National Certificates and Diplomas are awarded by the Institution in conjunction with the Board of Education to students of approved Technical Schools and Colleges (v. Board of Education, Rules 106, 1921, 1d.). Certificates are awarded in respect of part-time and Diplomas in respect of full-time grouped courses. Part-time courses are classified as *Senior* or *Advanced*, the latter aiming at reaching within the limits of the subjects covered by them the standard of University work. Full-time courses are also classified as *Senior* (for Secondary School students aged 16) and *Advanced* (for Secondary School students aged 17 or 18 or students who have been for 2 yrs. in regular employment with concurrent instruction at senior or advanced part-time courses). The courses must extend over at least 2 yrs. and the senior part-time course should normally extend over 3. The Certifs. and Diplomas relating to Senior and Advanced courses respectively are known as *Ordinary* and *Higher*. The *Higher* Certifs. and Diplomas exempt candidates from certain subjects of the Associate membership examn.

ROYAL AERONAUTICAL SOCIETY

Founded 1866. *Address*—7 Albemarle St., London, W.1.

Membership is of two categories—technical (Students, Associate Fellows, and Fellows) and non-technical. *Associate Fellowship* (A.F.R.Ae.S.) is reserved for those who have attained to an acknowledged position in the science of aeronautics; *Fellowship* (F.R.Ae.S.) for those who have attained to considerable eminence. Annual subsn. 1 g., 4 gs., and 6 gs., according to class. Entrance for Assoc. Fellows and Fellows, 3 gs. and 5 gs. *Library*, including large recent acquisitions due to grant from Carnegie U.K. Trust, available to non-members through the medium of the Central Library for Students, 9 Galen Place, W.C.1. *Lectures*, fortnightly in winter. *Publications*, "Journal" (monthly) and "Transactions" (occasional).

INSTITUTION OF AUTOMOBILE ENGINEERS

Incorporated 1907. *Address*—Watergate House, York Buildings, Adelphi, W.C.2.

Qualifications for (1) Ordinary Membership (M.I.A.E.): minimum age, 25; having occupied during a sufficient period a responsible position

in connexion with the practice of, or otherwise proved thorough knowledge of theory and practice of Automobile Engineering; (2) Associate Membership (A M.I.A E.): min. age, 23, having been trained as Engineer and subsequently employed for at least 2 yrs. in practice and science of A.E. and being actually so engaged. Persons suitably qualified may also join as graduates, associates, or affiliates. Annual subsn. 1 g. to 4 gs. according to class. Prizes up to £25 for Papers by Graduates.

INSTITUTION OF CHEMICAL ENGINEERS

Incorporated Dec. 21, 1922. *Address*—Abbey House, Victoria Street, London, S.W.1.

Membership (M.I.Chem.E.) qualifications: minimum age, 32, and satisfactory evidence of good general and scientific education, training, and experience, or of eminence as a Chemical Engineer. *Associate Membership* (A.M.I.Chem.E.): candidates not below the age of 25 who have had regular training and sufficient experience may qualify by passing a prescribed examn. Alternative qualifications are also provided for. Subscriptions of "students," graduates, and corporate members range from ½ g. to 5 gs.

INSTITUTION OF GAS ENGINEERS

Founded 1863. Incorporated 1902. *Address*—28 Grosvenor Gardens, Westminster, S.W.1.

In 1923 a scheme for awarding grouped course Certificates, Ordinary and Higher, for success in Part-time day or evening courses, on lines similar to those for National Certificates in electrical and mechanical engineering (v. *supra*), was adopted with the approval of the Govt. education authorities of Great Britain and Ireland. Provision has also been made for granting *Diplomas* in Gas Engineering and in Gas Supply for success in an examination. There are not at present any examns. for admission to membership of the Institution.

THE INSTITUTE OF MARINE ENGINEERS, INCORPORATED

Established 1889. *Address*—85 The Minories, Tower Hill, London, E.1.

Membership open to Engineers holding First or Second Class Sea-going certificates or those holding responsible or qualifying positions and engaged in the science or practice of Engineering or shipbuilding; Associateship, to juniors so engaged and at least 21 years of age; Graduateship, to those receiving training in such science or practice who have completed one year of such training; Student Graduateship, to

those who have attended Technical classes for a year, are training for such science or practice, and have passed the Institute's examn. The examn. (fee, 2s. 6d.) is held in London and the provinces in April in the following subjects: Theoretical Mechanics, Heat and Heat Engines, Machine Constn. and Drawing, Applied Mechanics, Maths., English, Elec. Engin. Entrance fee, 10s. to 30s. and annual subsn., 5s. to £1 : 11 : 6 according to grade of membership.

Library (over 3000 vols.) and Reading Room. Lectures during winter session. Gold Medal and other awards for Essay competitions.

Lloyd's Register Scholarships: Three of £100 p a. tenable for 3 yrs. in a University or College (day classes), open for competition, by examn., to British subjects, aged 18-23, who are Graduates or Associates of the Inst., apprentices or junior engineers, not necessarily connected with the Inst., who have served at least 2 yrs. in a commercial engineering workshop and until the time of application have been employed at engineering either ashore, afloat, or at College with a view to entering upon the business of Marine Engineering. The examn. is held about end of May each year in various centres to suit the residences of candidates in Great Britain.

INSTITUTION OF NAVAL ARCHITECTS

Founded 1860. Incorporated by Royal Charter 1910. *Address*—5 Adelphi Terrace, London, W.C.2.

Principal qualifications for Membership: minimum age, 30; having served apprenticeship in naval architecture or marine engineering and subsequently been engaged in such occupation and having held a post of primary responsibility for 7 yrs. or more. Qualifications for Associate Membership are similar, but minimum age is 25 and post of primary responsibility need not have been held. Age-limit for Associates 25, Students 18-25. Entrance fee and annual subsn., 2 gs. each, except for students, who pay subsn. 15s. p.a. and no entrance fee. Distinctive letters, M.I.N.A., etc.

Scholarships in naval architecture and marine engineering: upwards of 15, varying in value from £75 to £150 p.a., offered for competition open to students and apprentices in firms engaged in shipbuilding industry and Royal dockyards; two for post-graduate research in naval architecture (value £250 p.a. and £150 p.a respectively) are awarded on recommendation of Univ. authorities.

Annual meetings, when papers are read and discussed. Summer meetings at shipbuilding centres at home or abroad.

Library, over 4000 vols., comprising principal works on shipbuilding, ancient and modern. Transactions, issued annually, constitute a permanent record for past 60 yrs. of all important developments in shipbuilding and marine engineering: £3 : 3s. for current volume (issued free to members), £2 : 2s. to 10s. 6d. for earlier numbers. Total membership about 2900, including many foreign naval architects of eminence.

NORTH-EAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS

Founded 1884. Incorporated under Companies Acts, 1908–17. *Address*—Bolbec Hall, Newcastle-on-Tyne.

Qualifications for Membership, Associate Membership, etc., are somewhat similar to those prescribed by the Institution of Naval Architects (v. *supra*). Distinctive letters, M.N.E.C.Inst., etc. All members are, by virtue of their membership, also members of the *Cleveland Scientific and Technical Institution, Middlesbrough.*

Scholarship in shipbuilding, marine, mechanical, or electrical engineering of the value of £100 awarded annually upon the results of an examn. held in Sept.

Library containing over 5000 books on engineering and shipbuilding subjects. Reading Room receiving regularly 70 British, foreign, and colonial periodicals. Transactions issued in 8 Parts since 1884. Price of Parts, 5s. each. Annual volume, 25s. Papers published also in excerpt form usually 5s. per copy, with discussion, correspondence, and author's reply.

INSTITUTION OF ENGINEERS AND SHIPBUILDERS IN SCOTLAND

Founded 1857. Incorporated 1871. *Address*—Elmbank Crescent, Glasgow.

Qualifications for Membership, Associateship, etc., are somewhat similar to those prescribed by the Institution of Naval Architects (v. *supra*). Distinctive letters, M I.E.S., etc. The Institution reciprocates with the North-East Coast Institution in regard to the use of premises and attendance at meetings. It exchanges transactions with 79 scientific societies and receives in exchange 93 periodicals. It issued recently a comprehensive *Report on the Education of Engineers.*

INSTITUTION OF MUNICIPAL AND COUNTY ENGINEERS

Founded 1873. Incorporated 1890. *Address*—92 Victoria Street, London, S.W.1. A Constituent Institution of the Joint Engineering Council.

Qualifications for Membership (M.Inst.M. and Cy E.): minimum age, 25; either holding a permanent chief appointment as an Engineer or Surveyor under a Municipal Corporation or other such Public Authority, or holding a permanent appointment as Deputy Engineer or Surveyor or the like and having passed the examn. of the Instn. or obtained equivalent Degree or Diploma, and in the case of deputies, etc., testimony of professional ability and experience justifying

election. Qualifications for Associate: Membership (A.M.Inst.M. and Cy.E.); minimum age, 22; having undergone a recognized course of instruction as Civil Engineer and Surveyor and holding a position as Engineer Asst. or Resident Engineer or the like under a Public Authority; and having passed the examn. of the Instn. or satisfied the Council that he has equivalent engineering qualifications. A candidate for election as student (age-limits 18 to 24) must be undergoing or have undergone a regular course of training as an articled pupil to or hold an approved appointment with an Engineer or Surveyor to a Public Authority.

Entrance fee for Member and Assoc. Member, 1½ g., £1 : 5s.; subsn., 2 gs., 1½ g. Student's subsn., 1 g.

Examinations are held in London in April and Oct. Examns are also held in Scotland, Ireland, India, S. Africa, and other parts of the Empire. Applications receivable up to Nov. 1 and May 1. Three certificates are awarded: (*a*) Testamur for general proficiency in work of a local govt. engineer and surveyor; (*b*) certificate in Town Planning; (*c*) certificate in County and Highway Engineering for specialized knowledge of road and bridge engineering and highway management and administration.

Qualifications for admission to the examns.: minimum age, 21; certificate of having passed the matricn. examn. of some University in the British Empire or an Examn. of similar standard approved by the Council; fees—(*a*) 4 gs., (*b*) or (*c*) 1½ or 3 gs.

Inquiries about examns. in India and S Africa may be addressed to M. Lea, Chief Engineer, Municipal Office, Karachi, India, and H. M. Ladell, Town and Water Engineer, Wynberg, Cape Colony, respectively.

Publications: *Journal*, fortnightly, 2 gs. p.a.; Town Planning Conference 1913, 10s. 6d.; Handbook containing lists of Members, Regns., etc., 5s.; and several others.

INSTITUTION OF STRUCTURAL ENGINEERS

Founded 1908, and incorporated 1909 as "The Concrete Institute." *Address*—Abbey House, Victoria Street, London, S.W.1. *Telegrams*—Coninst, Sowest, London. Branches (4): Lancashire and Cheshire, Western Counties, Yorkshire, Midland Counties.

Admission to the class of Member is open only by examn., through the Graduate and Associate-Membership classes. Admission to Associateship is direct, but candidates must be Fellows either of the R.I.B.A. or Surveyors' Institution, or must be of equivalent professional standing. Distinctive initials of members, etc., M.I.Struct.E., etc.

Publications: *The Structural Engineer*, monthly, 1s. 2d. post free; Yearbook, 3s. 8d. post free; numerous books and reports on technical subjects.

X

THE BAR IN ENGLAND AND WALES

THE right to practise as a Barrister in the Law Courts of England and Wales is restricted to those who have been called to the Bar by one of the Inns of Court—Lincoln's Inn, Middle Temple, Inner Temple, and Gray's Inn. The consolidated Regulations of these Societies (obtainable from the *Council of Legal Education*, 15 Old Square, Lincoln's Inn, London, W.C.2) provide, *inter alia*, as follows: *Admission of Students*. The conditions include: (i.) having passed any examn. held by any Univ. in the British Dominions or any of the States in India, approved by the Council of Legal Educn., which entitles to a degree or, provided that one of the subjects in which the Student has passed is Latin, one of certain other examinations approved by the Council of Legal Education; (ii.) satisfactory evidence of good character; (iii.) declaration that the candidate will not "directly or indirectly apply for or take out any certificate to practise, directly or indirectly, as a Pleader or Conveyancer or Draftsman in Equity, without the special permission of the Masters of the Bench," and is not and does not "directly or indirectly act in the capacity of a Solicitor, Attorney-at-Law . . . Professional Accountant, Actuary, Land-Agent, Surveyor . . ." or "in any capacity similar to any of those . . . otherwise than as. . . ." The Schedule of approved Prelim. examns. includes those numbered in the list on p. 626, as 1, 2, 3, 5, 6, 8 (*a*) (*b*), 9 or 10 (subject to provisos), 18 (according to standard applicable to students whose native language is English), 20, 21. The Council may add others, and the Masters of the Bench of the Inn of Court concerned may, in special cases, relax or dispense with this requirement.

Keeping Terms. This is done by eating dinners 6 days in each of 12 terms (members of Univs. of the U.K. 3 days). There are 4 terms in each year.

Education and Examination. Systematic instruction is provided under the supervision and direction of the Council of Legal Education in Roman, International, Constitutional, and English Law, Jurisprudence, Legal History, and Equity. Reading in the chambers of a Barrister or Pleader for the purpose of studying the practice of Law is recommended, but not compulsory. Four examns. for Call to the Bar are held each year. Candidates must satisfy the examiners in each of the sections: (1) Roman Law, (2) Constitutional Law (English and Colonial) and Legal History, (3) Criminal Law, (4) Real Property and Conveyancing *or* Hindu and Mohammedan Law *or* Roman-Dutch Law, (5) Common Law, (6) Equity, (7) Law of Evidence and Civil Procedure, (8) General Paper on 5, 6, and 7. A student who has passed an examination in Roman Law, forming part of a qualifying examination for a Univ. degree, may be excused the examination in Section 1. Sections 1 to 4 (constituting Part I.) may be taken separately (fee, ½ g. each); 5 to 8 (the Final examination) must be taken together (fee, 2 gs.)

after having passed 1 to 4 and, ordinarily, after having kept at least 6 terms.

The successful students are classified and the names of those in Classes I. and II. of the Final Examination Pass List are arranged in order of merit. A Certificate of Honour is granted to those in Class I. at the Final examination. Prizes of £50 each may be awarded for the best students (not over 25 yrs. of age) in Sections (2) and (3), and a Studentship of 100 gs. p.a. tenable for 3 yrs. to the best student (not over 25 yrs. of age) at the Final examination. The Inn to which a student who has obtained a Studentship or Certificate of Honour belongs may, if desired, dispense with any Terms, not exceeding 2, that may remain to be kept by him.

Calls to the Bar. Minimum age, 21. In special circumstances the Masters of the Bench may dispense with the keeping of not more than 2 of the 12 terms ordinarily required to be kept by a student before he is called, and special concessions in regard to the keeping of terms or examinations, etc., are allowed to Scottish Advocates, Irish Barristers, members of the Bar of New South Wales, Ceylon, the Cape Province of South Africa, New Zealand, Vakils of High Courts in India, certain Civil Servants exercising judicial functions abroad, and to persons who, prior to admission as students, have practised as Solicitors for 5 yrs. subsequent to admission as a solicitor *in England* (including interruptions caused by war service).

Fees. On admission: application, 1 g.; stamp duty, £25; lecture fee, 12 gs.; admission fees, £20 or £21. On Call: stamp duty, £50; composition for annual dues, £12; call fees, £38 (Gray's), £40 (Lincoln's) £50 (Middle or Inner).

SOLICITORS IN ENGLAND AND WALES

Examinations are held by the LAW SOCIETY, Chancery Lane, London, W.C.2. All persons, except some Colonial Solicitors, are subject to Final examination at conclusion of service under Articles before they can be admitted as Solicitors. Subjects of Foreign States cannot be admitted. English Barristers of 5 yrs.' standing are not required to enter into Articles, but may be admitted after passing the Final examn. Before entering into Articles of Clerkship (under the Solrs. Act, 1877) with a view to admission as Solicitors it is necessary, except for persons exempted, to pass a *Preliminary examn.* (fee, £4) held in London and several provincial towns in Feb., July, and Oct., in English, Elem. Maths., Geog. of Europe, and Hist. of England, Latin, and one or (if Algebra and Elem. Geom. are not taken) two of the following—Latin translation, Greek, French, German, Spanish, Italian. Exemption is allowed to graduates in Arts or Laws and persons who have passed matricn. or other corresponding examns. of any Univ. of Great Britain or Ireland or examns. exempting therefrom; to Utter Barristers in England; and to persons who have passed Oxford Responsions or Cambridge Previous Examn. or any examn. exempting therefrom, or, subject to provisos, approved School Certificate or Higher Certificate examns., or certain other examns.

Service under Articles (stamp duty, £80) is normally for 5 yrs. This may be reduced : (1) to 3 yrs. for graduates in Arts or Laws or Science of any Univ. of the U.K., English Barrister of less than 5 yrs.' standing, or for members of the Faculty of Advocates, Writers to the Signet and Solrs. in the Supreme Courts of Scotland, or Procurators before any of the Sheriff Courts of Scotland ; (2) to 4 yrs. for persons who have (*a*) passed examns. Nos. (v. list on p. 626) 1, 1*a*, 1*b*, 2, 3 (1st Division), 4*a*, 6 (1st Division), 13 (with Hons.), 24, or an approved Higher Certificate examn. and have fulfilled certain conditions in connexion therewith, or (*b*) before entering into Articles attended for 1 yr. the approved curriculum of study at the Law Society and complied with certain regulations in connexion therewith, or (*c*) before entering into Articles passed examn. No. 6 (Latin being taken), and subsequently attended, to the satisfaction of the Univ., the curriculum for the Interm. LL.B. of Leeds, Liverpool, Manchester, or Sheffield, and passed the Interm. LL.B. examn.

An *Intermediate* examn. (fee, £6), which may be taken after completing 12 months' service, is held in March, June, and Nov. Exemption from the Legal portion (but not from the Trust Accounts and Book-keeping portion) is given to those who (i.) before or after entering into Articles have passed the examn. for the B.C.L. or LL.B. at any of the Univs. of England (except Bristol) and Wales or at the Univ. of Dublin ; or (ii.) before entering into Articles have taken Honours in the Final Honour School of Jurispr. at Oxford or in the Law Tripos at Cambridge. Exemption from the whole of this examn. in consideration of circumstances connected with the war is obtainable under certain conditions (v. sec. 2 of Solrs. Act, 1918).

The *Final* examn. (fee, 10 gs.) is held in March, June, and Nov. Prints of the Questions set at this and at the Interm. are obtainable from the Law Society.

THE SOLICITORS ACT, 1922. Section 2 provides that a person articled to a solicitor after Dec. 31, 1922, shall not be admitted to the Final Examn. unless he satisfies the Law Society that he has, during a period of one year, complied with the requirements of the Society as to attendance at a Law School provided or approved by the Society. This does not apply to any person who (1) has taken a degree at any Univ. in the U.K., after passing a Final Examn. in law at such Univ. ; or (2) applies to be admitted to the Law Society's Final Examn. after satisfying the requirements of Sect. 4 of the Solrs. Act, 1860. Any person may be wholly or partially exempted from attendance at a Law School if he can satisfy the Law Society that such attendance is for geographical or other reasons impracticable.

Provided and Approved Schools. The Society's Law School in London ; the Univs. of Birmingham (in conjunction with the Birmingham Board of Legal Studies), Bristol, Cambridge, Durham (Armstrong College), Leeds, Liverpool (in conjunction with the Liverpool Board of Legal Studies), London, Manchester, Oxford, Sheffield, Wales (Univ. Colleges, Aberystwyth, Bangor, Cardiff, Swansea), Univ. College, Exeter, Univ. College, Southampton, East Midland Law School (Univ. Colleges of Nottingham and Leicester).

XI

MEDICAL AND DENTAL QUALIFICATIONS AND STUDIES

A. MEDICAL QUALIFICATIONS

Address of the Registrar, General Medical Council—44 Hallam St., Portland Place, London, W.1. *Telegrams*—Genmedicum, Eusroad, London. *Addresses of Registrars of Branch Councils*—20 Queen St., Edinburgh; 35 Dawson St., Dublin.

No person is recognized by law as a duly qualified Medical Practitioner in Great Britain or Ireland whose qualification is not *registered* in the books of the *General Medical Council*. Below are lists of the qualifications so registrable—obtainable (*a*) in Great Britain and Ireland, (*b*) in British Possessions overseas, (*c*) in foreign countries. The document presented in evidence of any of these must show that the possessor has passed a Qualifying examn. in Medicine, Surgery, and Midwifery. For registration in the Colonial or Foreign list it is essential that the qualification be first registered in the Province, State, etc., in which it was obtained.

Position of Doctors with Irish Qualifications. Some doubt has arisen as to what the position will be if the Irish Free State discontinue in February next the present arrangement, under which the Medical Acts of the United Kingdom have effect in that State. The position will be as follows:—Persons whose names already appear upon the Medical Register will be in precisely the same position as before and will incur no disability. Persons who obtain Southern Irish qualifications after the arrangement comes to an end will not be entitled to have them registered either on the British or on the Colonial List of the Medical Register, and fresh legislation in the United Kingdom will be required before registration in virtue of these qualifications could be effected. It is possible, however, that the Licensing Authorities in the United Kingdom will recognize courses of medical study in the Irish Free State, and will admit to their Final Examination those who have obtained such Southern Irish qualification. Any person thus obtaining a British qualification in addition to the latter would be entitled to registration in the Medical Register.

(*a*)

Royal College of Physicians, London—F., M., L., R.C.P. Lond.
Royal College of Surgeons of England—F., M., R.C.S. Engl.
Royal College of Physicians of Edinburgh—F., M., L., R.C.P. Edin.
Royal College of Surgeons of Edinburgh—F., L., R.C.S. Edin.
Royal Faculty of Physicians and Surgeons of Glasgow—F., L., R.F.P.S. Glas.
Royal College of Physicians of Ireland—F., M., L., L.M., R.C.P. Irel
Royal College of Surgeons in Ireland—F., L., L.M., R.C.S. Irel.
Apothecaries' Soc. of London—L.M.S.S.A. Lond.

Apothecaries' Hall, Dublin—L.A.H. Dub.

Each Univ. in Great Britain or Ireland—M.D. (Ox., D.M.), M.B. (Ox., B.M.), Ch.B. or B.Ch. or B.S. (Camb. B.Chir.), Ch.M. or M.Ch. or M.S. or C.M. (Camb. M.Chir.); Dub.: L.Med., L.S.

Registrable Diplomas or Certificates for proficiency in Sanitary Science, Public Health, or State Medicine which may be added to qualifications already registered but do not admit primarily to the Register: D.P.H. (R.C.P.S. Engl., R C.P.S. Edin., and R.F.P.S. Glas., R.C.P.S. Irel., and each of the Univs. of Great Britain and Ireland, except London).

B.Sc. (P.H.) Birm.
B.Hy., D.Hy. Durh.
M.D. (S.M.) Lond.
M.H. L'pool.
B.Sc. (P.H.), D.Sc. (P.H.) Edin.; B.Sc. (P.H.), D.Sc. (P.H.) Glas.

Under the Public Health Acts no appointment as Med. Officer of Health may be made in any county, district, or combination of districts of a population of 50,000 or upwards unless he is registered as the holder of a Diploma in San. Sc.

New Rules for obtaining qualifications in Public Health were adopted on May 22, 1922, and came into operation as from Jan. 1, 1924. They revise the curriculum and extend the period between the obtaining of an original qualification and a Diploma to not less than 2 years.

(*b*)

Australia. M.B., M.D. Syd., Adel., or Melb.; Ch.M. Syd.; B.S., M.S. Adel.; B.S. Melb.

Canada. M.D. Dal., Laval, McG., Mont.; C.M. Dal., McG.; L.M.S. New Brunswick Provincial Council of P. & S., *or* Nova Scotia Provl. Med Board, *or* Prince Edward Island Med. Council.

M.C.P. & S. Alta., *or* Manit., *or* Ont., *or* Sask.

As qualifications which may be added (1) to M.C.P. & S. Ont.—M.B., M.D., C.M. of Queen's, M.B., M.D. Tor., or M.D. Western; (2) to M.C.P. & S. Manit.—M.D., C.M. Manit.

Ceylon. L.M.S. Ceylon Med. Coll.

Hong-Kong. M.B., B.S., M.D., M.S. Hong-Kong.

India. M.B., B.S. All.

L.M.S., M.B., B.S., M.D., M.S. Bom.
L.M.S., M.B., M.D., M.S., M.O. Calc. (if dated prior to Nov. 30, 1924).
M.B., C.M., M B., B.S., M.D. Mad.
L.M.S., M.B., M.D., M.S. Panj.
M.B., B.S. Lucknow.

Malta. M.D. Malta.

Newfoundland. L.M.S. Nfld. Med. Board.

New Zealand. M.B., Ch.B., M.D. N.Z.

South Africa.

M.B., Ch.B. Cape Town.
M.B., Ch.B. S. Africa.
M.B., B Ch. U. Witwatersrand.

Straits Settlements. L.M.S. Singapore Med. Coll.

(*c*)

Degrees of (i.) Doctor of Med. and Surg. of all the Royal Italian Univs.; (ii.) Bachelor of Med. and Doctor of Med. of the Imperial Univs. of Japan; and Bachelor of Med. of any Govt. or Prefectural Special Med. Coll. or of a private special Med. Coll. designated by a Minister of Educn. of the Empire of Japan.

B. REGISTRATION OF MEDICAL STUDENTS

The Regulations (including the modifications which came into force on Jan. 1, 1923), obtainable from the Registrar, 44 Hallam St., London, W.1, post free 1s., prescribe Registration of Medical Students within 15 days of the commencement of their professional studies. For this purpose they should apply in the prescribed form, obtainable from any of the Registrars (v. *supra*), submitting evidence of having—(*a*) attained the age of 17; (*b*) passed a Preliminary examn. in General Education recognized by the Council; (*c*) passed also an examn. in *Elementary Physics* and *Elementary Chemistry* conducted or recognized by one of the Licensing Bodies; (*d*) commenced Medical study at an approved Univ. or Medical School.

As regards (*b*) the Council recognizes no examn. which is of standard lower than that of Univ. Matricn. examns. in the faculties of Arts and Pure Science, and requires that the examn. certificate shall bear evidence that the candidate has passed in English, Elem. Maths., a language other than English, and an additional subject or subjects as required by the regulations of the particular examn., to be chosen from the subjoined list, viz. Hist., Geog., Physical Sc., Nat. Sc., Latin, Greek, Hebrew, French, German, or other language accepted by the Univ. for the purpose. Applicants from one of the recognized Colonial Univs. must produce evidence that they have passed the complete Matricn. examn. for the faculty of Arts or of Science (Pure) of the Univ. or College from which they come, or an examn. accepted as equivalent thereto, and that the examn. passed is accepted by one of the Univs. of Great Britain or Ireland for similar purposes. Applicants from one of the recognized Indian Univs. must produce evidence that they have passed the Matricn. examn. of the Univ. from which they come, or an examn. recognized as equivalent thereto, and, in addition, the Preliminary Scientific or Intermediate examn. in Arts or Science of their own Univ. Applicants from Foreign Univs. should submit their credentials to the Registrar.

As regards (*c*), this requirement is not dispensed with in cases where *Physics* and *Chemistry* of a Matricn. standard formed part of the (*b*) examn., but an applicant from one of the recognized Colonial Univs. or Colleges is permitted to substitute for it a certificate that an examn. in Physics and Chem. (and, in addition, *Biology*, v. *infra*) equivalent in standard to the First Professional examn. in these subjects has been passed by the student. Similarly, in the case of an applicant from one of the recognized Indian Univs. the Preliminary Scientific or Inter-

mediate examn. in Arts or Science of his own Univ. will suffice if these subjects are included in his Pass certificate.

As regards (*d*), institutions in which Medical Study may be commenced include all the Univs. and other Bodies throughout the Empire of which the *qualifications* (v. *supra*) have been recognized as entitling to registration in the U.K.

A student who has diligently attended an approved course of instruction in *Elementary Biology* at a Secondary school or other teaching institution recognized by a Licensing Body may be admitted to the Professional examn. in this subject immediately after his registration as a student.

C. DENTAL QUALIFICATIONS

Under the Dentists Act, 1921, no person who is unregistered may practise dentistry without rendering himself liable to prosecution.

The Dental Board of the United Kingdom was constituted by the Dentists Act, 1921, and is charged with the duty of dental registration. The address of the Registrar is 44 Hallam St., London, W.1. *Telegrams* —Dentiboard, Eusroad, London.

The following lists show the registrable qualifications obtainable (*a*) in Great Britain and Ireland, (*b*) in British Possessions overseas, (*c*) in foreign countries.

(*a*)

Royal College of Surgeons of England—L.D.S., R.C.S. Eng.

Royal College of Surgeons of Edinburgh—H.D.D., L.D.S., R.C.S. Edin.

Royal Faculty of Physicians and Surgeons of Glasgow—H.D.D., L.D.S., R.F.P.S. Glas.

Royal College of Surgeons in Ireland—L.D.S., R C.S. Irel.

Univ. of Birmingham—M.D.S., B.D.S., L.D.S. U. Birm.

Univ. of Bristol—M.D.S., B.D.S., L.D.S. U. Brist.

Univ. of Durham—L.D.S. U. Durh.

Univ. of Leeds—M.Ch.D., B.Ch.D., L.D.S. U. Leeds.

Univ. of Liverpool—M.D.S., B.D.S., L.D.S. U. L'pool.

Univ. of London—B.D.S., M.S. (Dent) U. Lond.

Victoria University of Manchester—M.D.S., B.D.S., L.D.S. V.U. Manc.

Univ. of Sheffield—M.D.S., B.D.S., L D.S. U. Sheff.

Univ. of St. Andrews—L.D.S. U. St. And.

Univ. of Dublin—M.D.Sc., B.D.Sc., L.D.Sc., U. Dubl.

National Univ. of Ireland—M.D.S., B.D.S. N.U. Irel.

Queen's Univ. of Belfast—M.D.S., B.D.S., L.D.S. Q.U. Belf.

(*b*)

Victoria, Australia—L.D.S. Vict.

Univ. of New Zealand—B.D.S. U. N. Zealand.

Univ. of Sydney—B.D.S. U. Sydney

Univ. of Melbourne—D.D.Sc , B.D.Sc. U. Melb.

(*c*)

Diploma in Dentistry granted to Candidates in Medicine of the Univs. of Brussels, Ghent, Liége and Louvain, after examn. by a Belgian Provincial Medical Commission—Dent. Dip. Belg.

Diploma of Bachelor of Medicine (Igakushi) in the Dental Division of the Tokyo Imperial University—M.B. (Dent. Div.) Tokyo Imp. U.

Diploma of Bachelor of Dental Surgery (Shikwa-Igakushi) of the Tokyo Dental College—B.D.S. Tokyo Dent. Coll.

Diploma of Bachelor of Dental Surgery (Shikwa-Igakushi) of the Nihon Dental College—B.D.S. Nihon Dent. Coll.

Diploma of Bachelor of Dental Surgery (Shikwa-Igakushi) of the Osaka Dental College—B.D.S. Osaka Dent. Coll.

D. REGISTRATION OF DENTAL STUDENTS

I. Registration is carried on at the Council Office in London in the same manner as that of Med. students, and is subject to the same regns. as regards age and Prelim. examns., but professional study may commence by pupilage with a Registered Dental Practitioner.

II. Candidates for a Diploma in Dental Surgery should produce certificates of having been engaged in professional studies for at least 4 years, including 3 years at least at a Dental school or schools recognized for professional study by one of the Licensing Bodies, and of having received for not less than 24 calendar months, or for 2000 hours, practical instruction in Dental Mechanics.

III. Two years' *bona-fide* apprenticeship with a Registered Dental Practitioner, after being registered as a Dental student, may be counted as 1 of the 4 yrs. of professional study.

IV. The necessary instruction in Dental Mechanics, or any part of it, may be taken by the Dental student either before or after his registration as a student. When he can show evidence of regular pupilage in Dental Mechanics to a Registered Practitioner, prior to passing the prescribed Preliminary and Scientific examns., he may be allowed to antedate for a period not exceeding 1 yr. prior to the passing of these examns.

V. It is recommended that instruction in Dental Mechanics be taken at a recognized Dental Hospital or School. If any part of such instruction be taken by the candidate as a pupil with a Registered Dental Practitioner, the time required to be devoted to it will be at least twice the time required for the corresponding instruction taken at a Dental School.

Schools at which Dental Study may be commenced: Birmingham D. Hospl; Bristol, Royal Infirmary, Genl. Hospl.; Dublin, D. Hospl. of Ireland; Dundee D. Hospl; Edinburgh D. Hospl.; Glasgow D. Hospl.; Leeds D. Hospl.; Liverpool D. Hospl.; London, Guy's Hospl. D. School, London Hospl. D. School, Univ. Coll. Hospl. D. School, Royal D. Hospl.; Manchester D. Hospl.; Newcastle-upon-Tyne D. Hospl.; Sheffield Royal Hospl.; Roy. Coll. of Surg. in Ireland; D. Department of any Univ. of the U.K.

E. RECIPROCAL RECOGNITION

The States, Presidencies, and Provinces in which the registrable medical qualifications specified under A (*b*), (*c*) are granted, all allow practitioners with qualifications registered in the U.K. to register without further examn. There are also other Colonies, *e.g.* Tasmania, which recognize British qualifications, but in which at present no qualifications are granted.

[A Report (5th edition pubd. in Jan. 1921) as to the conditions under which Med. and Dent. practitioners registered or legally qualified in their own country may practise abroad is obtainable from the Council Office, price 2s. 6d. (post free U.K. 2s. 10d., elsewhere in the Empire 3s. 1d., outside 3s. 4d.). It contains, among other matters, the designations and addresses of the persons to whom application should be made for forms and further information.]

F. POST-GRADUATE MEDICAL STUDIES

In London, in addition to the General Hospital Medical Schools which provide to a limited extent for qualified practitioners, there are the West London Post-graduate College at the West London Hospital, Hammersmith, with a staff of 37 regular lectrs. and demrs., the North-East London Post-Graduate College at the Prince of Wales' Hospital, Tottenham, and the London School of Clinical Medicine at the Seamen's Hospital, Greenwich, as well as certain special hospitals where excellent arrangements are made for post-graduate work in particular subjects. The *Fellowship of Medicine* (1 Wimpole St., London, W.1) formed in 1918, promotes and advertises the provision of facilities for post-graduate work and assists in the cultivation of mutual hospitality between the medical profession at home and their medical brethren overseas. In co-operation with 50 London general and special hospitals, post-graduate courses in all the special departments of medical science are arranged, as well as short intensive courses at regular intervals during the year.

Post-graduate courses are also provided elsewhere, notably at Edinburgh and Glasgow.

ROYAL COLLEGE OF PHYSICIANS OF LONDON AND ROYAL COLLEGE OF SURGEONS OF ENGLAND

Address of the Secy., Conjoint Examining Board in England, 8-11 Queen Sq., Bloomsbury, London, W.C.1. Applications for admission to the Board's examns. should reach the Secy. at least 14 days (in the case of the L.D.S. Professional examns., 21 days) beforehand. Agency for the sale of Books of Questions set in past years (9d. each)—Taylor & Francis, Red Lion Court, Fleet St., London, E.C.4.

Examinations for the Diplomas of LICENCE OF THE R.C.P. of London and MEMBER OF THE R.C.S. of England are held ordinarily in Jan.,

April, July, and Sept. or Oct. Candidates must have passed a Prelim. examn. in general education recognized by the Board, and must have passed before commencing the 5 years' curriculum of professional study, *a Pre-Medical examn. in Chemistry and Physics* conducted or recognized by the Board. Before admission to the Professional examns. (known as the *First* and *Final*) they are required to produce certificates of having pursued the prescribed courses of study and practice. The *First* Professional examn. (fee, 10 gs.) comprises: Section I., (*a*) Anatomy, including Histology and Embryology, (*b*) Physiology, including Bio-Chemistry; Section II., Pharmacology, Practical Pharmacy, and Materia Medica. A candidate who has passed an examn. in the subjects of Section I. or of either part of Section I. and of Section II. in the examn. for the degree in Medicine conducted at a Univ. recognized by the Board will be exempted from further examn. in such subject or subjects. The subjects of the *Final* Professional Examn. are: Section I. (fee, 4 gs.), (*a*) Pathology, including Morbid Anatomy, Morbid Histology, and Clinical Path., (*b*) Bacteriology; Section II.—Part I. (fee, 10 gs.), Medicine, including Med. Anatomy, Forensic Med., and Public Health; Part II. (fee, 10 gs.), Surgery, including Surg. Anatomy and the use of Surg. Appliances; Part III. (fee, 6 gs.), Midwifery and Gynæcology. A candidate who has passed an examn. for a degree in medicine in the subjects of Pathology and Bacteriology at a Univ. recognized by the Board is exempted from Section I.

Students of recognized Univs. in England, Scotland, and Ireland, who have passed examns. for a degree in Medicine at their Univs. in the subjects of the First Professional Examn, may enter for the Final at the expiration of two years from the date of passing in Anatomy and Physiology on production of the required certificates.

Members of certain recognized Indian, Colonial, and Foreign Univs., who have passed examns. for the Degree of Doctor or Bachelor of Medicine or Surgery in the subjects of the First Professional Examn., may present themselves for the Final under special conditions. A holder of the diploma of the National Board of Examiners of the U.S.A. can enter for the Final on producing the required certificates of 5 years' study from one of the Univs. recognized by the Conjoint Board. The Board also grants Diplomas in Public Health, in Psychological Medicine, in Ophthalmic Medicine and Surgery, in Tropical Medicine and Hygiene, and in Laryngology and Otology. Candidates must hold a Medical qualification registrable in the U.K., or be Graduates in Medicine of a recognized Indian, a Colonial, or a Foreign Univ.

The regulations affecting candidates who were registered as medical students before Jan. 1, 1924, are given in the 1923 and previous editions of this *Yearbook*.

For admission to the MEMBERSHIP OF THE R.C.P. (fee, 40 gs., *less* Licence fee, if any, already paid) the minimum age is 25, and a candidate must satisfy the Censors' Board as to his moral character and conduct and pass an examn. of such nature and extent as may be determined by the Board. If under the age of 40, he must prove a knowledge of Latin, and of either Greek, French, or German, in addition to proving

his professional acquirements. If he has not passed the examns. required for the Licence, he must be a registered practitioner who *either* has obtained the degree of Doctor or Bachelor of Medicine at a Univ. in the Empire or a foreign qualification entitling him to practise Medicine or Surgery in the country where it was conferred, after undergoing courses and examns. which the Censors' Board consider sufficient, *or* has attained the age of 40, and can produce testimonials sufficient to satisfy the Board, and subsequently the Fellows, at a General Meeting, that he ought to be admitted to examn.

The FELLOWSHIP of the R.C.P. is conferred by election on a member of the College of not less than 4 yrs.' standing. (For particulars of the Membership and Fellowship of the R.C.P. application must be made direct to the Registrar, Pall Mall East, London, S.W.1.)

Examns. for the FELLOWSHIP OF THE R.C.S. are held twice yearly —the 1st Prof. in June and Dec., and the 2nd Prof in May and Nov. Fees, first examn., 8 gs., 2nd, 12 gs., admission to Fellowship (minimum age, 25), 10 gs., for those who are not M R.C.S. Eng. The *First* examn. (in Anat. and Physiol) is open to M.R.C.S. Eng., and, on production of certain certificates involving work extending over 3 winter sessions, to (*a*) candidates who have passed the First examn., Pts. I., II. and III., and the Second examn. for the L.R.C.P. Lond. and M.R.C.S. Eng., and (*b*) members of Univs. recognized under the Regns. of the Board. The *Second* examn. (in Surgery, including Surg., Anat., and Path.) is open, provided they have passed the First, to (*a*) M.R.C.S. Eng. who have been engaged not less than 6 yrs. in the study or study and practice of the profession, and (*b*) persons possessing the registrable Surg. and Med. degrees of the under-mentioned Univs., who have been engaged after obtaining such degrees in the study or study and practice of the profession for 4 yrs., including 1 yr. spent in attendance upon the Surg. Practice of a recognized Hospl. or Infirmary: the Univs. of the U.K., Dalhousie, Laval, McGill, Manitoba, Queen's (Kingston), Toronto, Western (Ont.), Adelaide, Melbourne, Sydney, N.Z., Bombay, Calcutta, Madras, Panjab, Allahabad, Hong-Kong, Malta, Italian Royal Univs. and Imperial Univ. of Japan.

All the above examns. are open to WOMEN, who are also eligible, subject to the provisions of the Medical Act, 1876, and Bye-laws of the Colleges, for the Diplomas of L.R.C.P., M.R.C.S., and F.R.C.S. (For particulars concerning the Fellowship of the R.C.S. apply to Director of Examinations, 8/11 Queen Square, London, W.C.1.)

ROYAL COLLEGE OF PHYSICIANS OF EDINBURGH, ROYAL COLLEGE OF SURGEONS OF EDINBURGH, AND ROYAL FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW

Joint examinations, open alike to men and women, are held in Edinburgh (in 1925–26 -October and April) and Glasgow (in 1925–26 —January and July) for the DIPLOMAS IN MEDICINE, SURGERY, AND

MIDWIFERY of these three bodies. Applications for admission should reach the Inspector—in Edinburgh, D. L. Eadie, 49 Lauriston Place; in Glasgow, W. Hurst, 242 St. Vincent St.—at least one week before.

Examns. for the DIPLOMA IN PUBLIC HEALTH (fee, 12 gs., or for each Part, 6 gs.) are held early in Oct. in Edinburgh and early in May in Glasgow.

The R.C.P. Edin. may admit to examn. for its single qualification —LICENCE—any candidate who has a Surg. qualification recognized for the purpose. Fee, 15 gs. Examns. held every month, except Sept. and Oct. Admission to MEMBERSHIP (minimum age, 24) is by election. Candidates must hold a Licence of a British or Irish College of Physicians or Degree in Med. of a Univ. approved by the Council, and pass the prescribed examn. unless exempted by the Council from the whole or part of it in consideration of work in any sphere of Med. adjudged to be of high distinction. Fee, 35 gs., or, if a L.R.C.P. Edin., 20 gs. A member of 3 yrs.' standing may be elected FELLOW. Fee, 38 gs., and stamp duty, 25 gs. The College has a Library of 100,000 vols. and Research Laboratory.

For admission to the FELLOWSHIP OF THE R.C.S. Edin. candidates must pass an examn. (fee, £45, or for L.R.C.S. Edin., £35) in: (*a*) Principles and Practice of Surgery, including Surg. Anat.; (*b*) Clinical S.; (*c*) one of the following—including clinical or practical as well as written and oral tests—S. Path. and Operative S.; Ophth. S.; Aural, Nasal, and Laryng. S.; Obst. S.; Gyn.; Adv. Anat.; Dental S. Qualifications for admission to the examn. (which is now open to women): minimum age, 25 yrs.; 2 yrs.' study and practice of the profession after obtaining one of the following, or other approved qualifications in S.: those of R.C.S. Eng., R.C.S.I., R.F.P.S. Glas.; Surgical degrees of the Univs. of the U.K. and Canada, Adelaide, Melb., Syd., N.Z., Bom., Calc., Mad., Panj.; L.M.S.S.A. Lond., and L.A.H. Dub. registered under the Med. Act, 1886.

At the final consideration of the candidate's petition for admission to the Fellowship election is determined by ballot.

Examns. for the LICENCE OF THE R.F.P.S. Glasgow can be arranged at any time of the year, except August. Fee, 15 gs. Qualifications for admission: Licence of one of the Colleges of Physicians of the U.K. or Colonies, or of the Soc. of Apothecaries of London or Apothecaries' Hall, Dublin, conferred after passing the qualifying examns. of these bodies; Degree in Med. of a Univ. of the British Empire.

Examns. for the FELLOWSHIP of the R.F.P.S. Glasgow are held in Jan., April, July, and Oct. 14 days' notice required. Admission to the Fellowship (fee, £50, or for L.R.F.P.S., £40) is either by examn. and subsequent election by ballot or by election in virtue of high distinction in Med. Science or Practice of persons not less than 40 yrs. of age who have been qualified for at least 10 yrs. Not more than 4 Practitioners are admitted by the latter method annually. Candidates must be proposed by 2 Fellows of the Faculty. Special regns. for candidates who have served in the Great War.

All examns. of the R.F.P.S. are open to women as well as to men.

ROYAL COLLEGE OF PHYSICIANS AND ROYAL COLLEGE OF SURGEONS IN IRELAND

Address of Committee of Management of the Conjoint Board—Royal College of Surgeons, Stephen's Green, Dublin. Registrar of the R.C.P.—6 Kildare St., Dublin.

Professional examns. for the LICENCES IN MEDICINE, SURGERY, AND MIDWIFERY are held by the Conjoint Board in spring, summer, and autumn. Candidates must comply with the requirements of the Gen. Med. Council (v. *supra*) *re* Prelim. examn. and Registration of students. The First Professional Examn. (fee, 25 gs.) comprises Anatomy, Physiology, and Histology. The *Second* (fee, 10 gs.): Pathology, Materia Medica and Pharmacy, Therapeutics, Forensic Medicine and Public Health. The *Final* (fee, 6 gs.): Medicine, including fevers, Mental Diseases and Diseases of Children; Surgery, including Operative and Ophthalmic; Midwifery and Gynæcology, Vaccination, and Diseases of Newborn Children.

Institutions recognized for instruction in subjects of the First examn. include numerous schools in the U.K., and also the Univ. of Cape Town and the Witwatersrand Univ., Johannesburg. Institutions recognized for certification of studies include: in Canada—the Univs. of Dalhousie, Laval, McGill, Toronto, Trinity Coll. and Vict. Coll. Tor.; Bishops' Coll., Montreal; R.C.P.S., Kingston; Trinity Med. Sch.; in Australia—Univs. of Melb. and Syd., Adelaide Infirmary, Melb. Hospl., Alfred Hospl., Syd. Infirmary, Prince Alfred Hospl., Genl. Hospls. of Hobart and Launceston; in N.Z.—Dunedin Hospl.; in Cape Town—S. African Coll.; in India—Med. Colls. of Bengal and Madras; the Ceylon Med. Coll.

Candidates who have passed in any of the required subjects at examns. conducted by any Licensing Body recognized by the R.C.P. and R.C.S. may be exempted from further examn. therein.

Examns. for the LICENSES OF THE R.C.P.I. are held early in Feb., May, and Nov., and at specially appointed times. That for the *License in Medicine* (fee, 15 gs., or for Special examn., 20 gs.) comprises Practice of M., Clinical M., Path., Med. Jurispr., Midw., Hygiene, Therap. It is open to a Registered Med. Practitioner of the U.K. or on the Colonial or Foreign List of the Gen. Med. Council if the College be satisfied as to his character and his courses of study and examns. passed by him. The examn. for the *License in Midwifery* (fee, 8 gs., special, 12 gs.) is open to Registered Med. Practitioners: (*a*) of the U.K. who have (i.) obtained the Lic. in Med. of the College or have passed the examn. therefor, or (ii.) satisfied the College as to character and as to course of study pursued and examns. passed; (*b*) of 5 yrs' standing who have so satisfied the College. Entrants under (*b*) are exempt from the examn. by printed questions. Applications for particulars should be forwarded to the Registrar, Royal College of Physicians of Ireland, 6 Kildare Street, Dublin.

Examns. for MEMBERSHIP OF THE R.C.P.I. are held in Feb., June,

and Nov., and at specially appointed times. Applications for admission should reach the Registrar by 2nd week in Jan., May, Oct. Fee, 35 gs., or for L.R.C.P.I., 20 gs.; extra for Special examn., 10 gs. The examn. is open to Registered Med. Practitioners: (*a*) who have held for at least a year a License in Med. of a College of Physicians of the U.K., or a degree (B. or D.) of any Univ. in the Empire recognized for registration purposes by the Gen. Med. Council; or (*b*) who hold a foreign qualification, entitling to practise Med. and Surg. in their own countries, obtained after a course of study deemed by the College to be satisfactory. The testimony of a fellow or member of the College or a F.R.C.P. Lond. or Edin. as to professional conduct and moral character is also required. The Diploma of membership carries with it the License if this has not been already obtained. Exemption from part of the examn. may be allowed by the Court of Examiners on a consideration of evidence that a candidate has "improved the Art or extended the Science of Med."

For admission to the FELLOWSHIP OF THE R.C.P.I. (fee, £35; stamp duty, £25) the candidate must have been a member of the College for 1 yr. Minimum age, 27. It is open to women.

The R.C.S.I. holds examns. (fee, 5 gs.) for a LICENCE IN SURGERY at the same times as those of the Conjoint Board. They are open at the discretion of the Council to Registered Med. Practitioners who have passed through a course of study and examns. equivalent to those required by the Conjoint Board and an examn. in Arts recognized by the Gen. Med. Council. Fee for Licence, 25 gs., including 5 gs. examn. fee.

The R.C.S.I. also holds examns. for a DIPLOMA IN MIDWIFERY. Candidates must have a registrable qualification and produce certificates of attendance on Lectures, 6 months' Hospital practice and conduct of 30 labour cases. Fee, 15 gs.

The examn. for the FELLOWSHIP OF THE R.C.S.I. is in 2 parts. Fee for each, 5 gs. For admission to the Final part a candidate must be a Licentiate or Graduate in Surg. of a Univ. or licensing body recognized by the Gen. Med. Council. Minimum age, 25. Fee on admission to Fellowship, 40 gs., or for Licentiate of the College, 25 gs.

THE SOCIETY OF APOTHECARIES OF LONDON

Incorporated by Royal Charter, 1617. *Address*—Water Lane, Queen Victoria St., London, E.C.4.

Examinations for the Diploma of Licentiate in Medicine, Surgery, and Midwifery (L.M.S.S.A.) are held in London, the Primary examn. (fee, 5 gs.) in Elem. Biol., Chem., Materia Medica and Pharmacy, Anatomy, Physiology, and Histology in Jan., April, July, and Oct., the Final (fee, 15 gs.), monthly, except in Sept. For admission to either, certificates are required, showing in detail the course of Medical study pursued by the candidate with particulars of instruction received, practice and operations performed, and offices held. The course covers 5 yrs. in all. Exemption from the Primary subjects may be obtained

by proving that equivalent examns. recognized by the Society have been passed.

THE ROYAL COLLEGE OF VETERINARY SURGEONS

Address—10 Red Lion Sq., London, W.C.1. *Affiliated Colleges*—Royal V. College, Camden Town, London, N.W.1; The V. School of the University, Liverpool; Royal (Dick) V. College, Summerhall, Edinburgh; The V. College, Buccleuch St., Glasgow; The V. College of Ireland, Ballsbridge, Dublin.

A candidate for the *Membership* must, after passing one out of a list (similar to that of the Gen. Med. Council, v. *supra*) of recognized Preliminary Educational examns., attend courses in one of the Affiliated Colleges during 4 yrs. as follows: 1st year (from which exemption is given under certain conditions to graduates, in Arts, Science or Medicine): Anat. of Domestic Animals; Chem. and Elem. Physics; Biol., Elem. Zool., and Botany. 2nd year: Anat. of Dom. Animals; Physiol. and Histol.; Stable Management, Shoeing, etc. 3rd year: Path., Bact., and Protozoology; Mat. Med., Tox., and Practical Pharmacy; V. Hygiene and Dietetics. 4th year: Principles and Practice of V. Med. and V. Surg. and Obst.; Meat Inspection. An examn. (fee, £5) is held at the end of each year's course.

Qualifications for *Fellowship*: 2 yrs.' practice after obtaining the membership, and a thesis on results of original research followed by oral and, if deemed necessary, written and practical examns. Fee, 15 gs.

For admission to the examn. for the *Diploma in V. State Medicine* it is necessary after graduation as M.R.C.V.S. to take a special course at a V. School and undergo training under a County or Municipal V. Inspector. Fee, £5:5s.

THE ROYAL SANITARY INSTITUTE

Founded 1876. Incorporated 1888. *Address*—90 Buckingham Palace Road, London, S.W.1. Branches in S. Africa, New Zealand, and New South Wales, and Examination Boards in all parts of the British Dominions.

The Institute is a composite body, representative of the various sciences allied to sanitation and public health, and its members (nearly 5000) include Medical men, Engineers, Architects, Municipal Officers, etc.

Qualifications for (1) Membership: evidence of attainments of standard indicated by certain of the Inst.'s own certificates, a Degree of a University, or Diploma of a Medical Corporation recognized by the Council, San. Science certif. of Surveyors' Instn. (v. p. 623), Testamur of the Instn. of Munic. and County Engineers (v. p. 595); (2) Associateship: the Inst.'s certif. for Sanitary Inspector or other evidence of attainments of similar standard. Annual Subsn. for Members, 1½ to

2 gs.; Associates, 15s. to 1 g. Fellows are elected from Members of at least one year's standing. Authorized signatures: M.R.San.I., A.R San.I.

Examinations held by the Institute (fee, 4 to 5 gs.): (1) Inspectors of Meat and Foods, (2) Smoke Inspectors; (3) Sanitary Science as applied to Buildings, etc.; (4) Health Visitors and School Nurses; (5) Maternity and Child Welfare Workers; (6) School Hygiene, including Elem Physiol., (7) Tropical Hygiene for Inspectors. The Institute's Certificates (Cert R.San.I) are well known throughout the United Kingdom and the Overseas Dominions, and are recognized by Public Authorities as qualifications for appointments.

The examns. are held in London and in numerous other towns in the U.K. and in Canada, Australasia, S. Africa, Hong-Kong, West Indies, Straits Settlements, and Mauritius. Examns. for San. Inspectors are held in Bombay and Rangoon in co-operation with the Local Governments.

Courses of Lectures and Demonstrations are held in London in spring and autumn. Fees, 3½ to 5 gs.

The Parkes Museum, founded 1876, became part of the Inst. in 1888. It serves as a public demonstrating school. The Inst. has a large Library, including many foreign works. Sessional meetings, about ten yearly, are held in London and other large towns

Congresses and exhibitions have been held almost every year since 1877.

Publications. *Journal*, monthly, and numerous pamphlets.

ROYAL INSTITUTE OF PUBLIC HEALTH

Founded 1886. Incorporated 1892. *Address* — 37 Russell Square, London, W.C.1.

The Institute provides courses of Instruction qualifying for admission to the examinations for the Degrees and Diplomas in Public Health of all the Univs. and Medical Corporations. Fees for Laboratory Instruction: 6 months, 34 gs.; P.H. Admn., 15 gs.; Fever Hosp. Admn., 3 gs; Special Lab. Fees., Chem. or Bact., monthly, 6 gs., 3 months, 15 gs. Courses of free lectures are also given in the Lecture Hall of the Inst. Special lectures open to Fellows, Members, and Students. Subscription, 1 g. p.a. Registration Fee, 1 g.

The Laboratories are recognized as a place of research in connexion with the Beit Memorial Fellowships. Researches and Clinical Examns. are undertaken for Public Bodies and Med. Practitioners. Culture media of all descriptions are supplied.

Reference Library containing all important P.H. Works, Govt. Reports, etc.

Congress to be held at Bristol, Whitsun, May 19-24, 1926.

Publication. *Journal of State Medicine*, monthly, 2s.

INSTITUTE OF HYGIENE

Founded 1903. *Address*—28 Portland Place, London, W.1.

Examinations for Certificates and Diplomas (advanced) are held at various universities throughout the U.K. on the second Saturday of Jan. and of June each year. Subjects: General Hygiene, School H, Mothercraft and Child Welfare. Fee, 1 g. to 2 gs. Complete syllabus with list of Text Books, 1s. Specimen questions, 1d.

The Certificate and Diploma in General Hygiene qualify for nomination as Associate and Member (M.I.H.) respectively of the Inst.

Public Lectures are regularly given throughout the year in the Lecture Hall. The Inst. has Laboratories for analytical and bacteriological investigation, and a Museum of Hygiene open to the public free throughout the year.

XII

THE INSTITUTION OF MINING AND METALLURGY

Founded 1892. Incorporated by Royal Charter 1915. Objects: Advancement of the Science and Practice of Mining in respect of minerals other than coal and of Metallurgy in respect of metals other than iron; and to afford a means of facilitating the acquisition and preservation of that knowledge which pertains to the profession of a Mining Engineer and Metallurgist. *Address*—Cleveland House, 225 City Road, London, E.C.1. *Telegrams*—"Minanmet, Barl., London."

Qualifications for Membership (M.Inst.M.M.): minimum age, 30, having been for at least 5 yrs. in full charge of important mining or metallurgical operations or in practice as a Consulting Mining Engineer or Metallurgist; if born after Dec. 31, 1894, a regular course of at least 3 yrs.' study in pure or applied science. Qualifications for Associateship (Assoc.Inst M.M.): minimum age, 25, having been engaged in mining or metallurgical pursuits for not less than (*a*) 2 yrs. if a graduate of the R.S.M. or other mining college or school of equivalent standing; (*b*) 3 yrs., or such longer period as Council may determine, if a graduate of some other college or school; (*c*) 6 yrs. in other cases. The minimum age for admission as student is 18. A candidate for either Membership or Associateship must be actually practising his profession at the time, and must satisfy the Council as to his fitness for admission. The Council may elect a candidate as Member in consideration of his position and attainments in Science or Technology. Entrance fee and annual subsn. for Member, 5 gs. each; Assoc., 3 gs. Students pay subsn., 1 g. (over 25—1½ g.) p.a. and no entrance fee.

General meetings for discussion of papers monthly, Oct.–May. Large Library, reading- and writing-rooms. Publications: *Bulletin*, monthly (£1 : 11 : 6 p.a.), and Transactions annually (£1 : 11 : 6 p. vol.); may be purchased by non-members. Gold medals, etc., are awarded by the Instn. for promoting its objects. The Instn. is closely associated with the Royal School of Mines. *Secretary*: Charles McDermid, who is also Secy. to the

EMPIRE COUNCIL OF MINING AND METALLURGICAL INSTITUTIONS

At an Empire Mining and Metallurgical Congress held at the British Empire Exhibition, 1924, it was resolved to form a Council to promote intercommunication and co-operation between the constituent institutions, to create and maintain a higher standard of technical efficiency and professional status, to convene future Congresses, and to compile a register of British Mining and Metallurgical Engineers,

Scientists, and Technologists. *Secretary-General*—Charles McDermid. *Address*—Cleveland House, 225 City Road, London, E.C.1.

INSTITUTION OF MINING ENGINEERS

Established 1889. Incorporated by Royal Charter 1915. *Address* —Cleveland House, 225 City Road, London, E.C.1. *Telegrams*— "Instimini, London."

The Institn.'s objects and purposes are "the advancement of coal and iron-ore mining and allied industries, and the promotion of the acquisition of the knowledge necessary for the control and direction of mining operations in relation to stratified deposits." It is a federation of the Manchester Geol. and Mining Soc.; the Midland Counties Instn. of Engineers; the Midland Instn. of Mining Engineers; the Mining Inst. of Scotland; the North of England Inst. of Mining and Mech. E.; the North Staffs Inst. of Min. E., and the South Staffs and Warwickshire Inst. of Min. E. Membership of the Institution is obtained by nomination through the Council of one or other of the Federated Institutes.

Conditions of admission to membership since Jan. 12, 1916, include: (*a*) regular education and training as a Min. E., and 5 yrs.' work in a responsible position in practical Mining; or (*b*) First-Class Certif. of Competency under Coal Mines Act, and tenure of post as Manager, Asst. Manager, Under-Manager, or Chief Surveyor; or (*c*) position or attainments rendering his membership desirable in the opinion of the Council. There are also Associate Members, Hon. Members, Associates, and Students.

Publications. Transactions (in which are included Procdgs. of Federated Insts. as well as those of the Instn. itself), 69 vols. Price to non-members, 36s. each for current volumes; back volumes at varying rates. Authorized signatures: M.I.Min.E.; Assoc.M.I.Min.E., etc.

THE IRON AND STEEL INSTITUTE

Founded 1869. Incorporated by Royal Charter 1899. *Address*— 28 Victoria St., London, S.W.1.

Qualifications: (1) for Membership—minimum age, 21; being practically engaged in iron or steel works or being a person of scientific attainments in metallurgy or specially interested in the applications of iron and steel. Entrance fee, 2 gs.; annual subsn., 3 gs. (if resident abroad, 2½ gs.). (2) For Associateship—maximum age, 24; being (*a*) Student of Metallurgy taking a course at a Univ., Univ. College, or Tech. School, or (*b*) pupil or apprentice in metallurgy or engineering, or (*c*) employed in some practical or scientific capacity in met. or engin. works. Annual subsn., 1 g. Initials denoting membership, M.I.S.I., A.I.S.I.

Meetings in May and Sept. for reading and discussion of papers. Library, reference and lending; printed catalogue. Information Bureau; service not restricted to members.

Carnegie Research Fund—£20,000, interest on which is used for grants to assist metallurgists and students in conducting researches.

Publications. *Journal* in 2 vols. annually; *Carnegie Scholarship Memoirs*, 1 vol. annually.

THE INSTITUTE OF METALS

Founded 1908. Incorporated 1910. *Address*—36 Victoria St, London, S.W.1.

Local Sections in Birmingham, Glasgow, London, Newcastle-on-Tyne, Swansea, Sheffield.

Qualifications for Ordinary Membership (M.Inst.Met.): minimum age, 24; occupying a responsible position, being either engaged in the manufacture, working or use of non-ferrous metals and alloys, or a person of scientific, technical or literary attainments connected with or interested in the metal trades or with the application of non-ferrous metals and alloys. Limits of age for Student Members, 18-25. Entrance fee and annual subsn. for Ordinary Members, 2 gs. and 3 gs. Students, 1 g. and 1 g. Associate members of local sections pay a nominal subscription and do not receive the *Journal*. *Fellows* (F.Inst.Met.) are limited in number to 12. They are chosen by Council for having rendered eminent service to the Assocn.

The Inst. aims at "the advancement of the non-ferrous metals industry and the associated sciences," by the co-operation of manufacturers, users and scientific investigators. It concerns itself rather with the manufacture and working of metals and alloys and with their properties and modes of treatment and testing, than with the production of metals from their ores. The leading features of its work are the holding of sessions in the spring and autumn and an annual "May lecture" given by some acknowledged master of his subject; in addition a special "Practical lecture" is given annually in the autumn by an expert non-ferrous technician.

The *Journal* contains in addition to the proceedings of all the meetings abstracts and reviews of all the more important current publications, British and foreign, bearing upon non-ferrous metals. Price to non-members, £3 : 5s. for the two annual vols. (post free).

Library with all the current journals of interest to those concerned with metals. Nucleus museum.

Research is encouraged, directed, and even undertaken by means of a series of special committees, the most important being the Corrosion Research Committee, which began its work in 1910, and after receiving substantial help from the Govt. Dept. of Scientific and Industrial Research was augmented by the addition of representatives of several Govt. Depts. and Professional Institns. Funds were provided by Sir George Beilby for enabling the Inst. to reward an important research,

still continuing, on "The Solidification of Metals from the Liquid State."

INSTITUTION OF PETROLEUM TECHNOLOGISTS

Incorporated 1914. *Address*—Aldine House, Bedford St., Strand, London, W.C.2.

Conditions of admission to associate membership (A.M Inst.P.T) since June 17, 1914, include (*a*) good general and scientific education, (*b*) at least 2 yrs.' practical experience in a position (held at time of application) as petroleum technologist.

Annual subscriptions: Students 1 g., Associates 2 gs., Assoc. members 2½ gs., Members 3 gs.

Publications. *Journal*, bi-monthly, 7s. 6d. (free to members). Rules, etc., 4s. *The Petroleum Industry*, 7s. 6d. *List of Members*, 2s. 6d. *Report of Standard Methods of Testing of Petroleum and its Products*, 6s. (members, 4s.).

XIII

THE CHARTERED INSTITUTE OF PATENT AGENTS

Founded 1882. Incorporated by Royal Charter 1891. *Address*—Staple Inn Buildings, London, W.C.1.

Under the Patents and Designs Acts, 1907 and 1919, it is illegal to practise as a Patent Agent without being duly registered. The Register of Patent Agents is kept by the Institute in accordance with the Board of Trade's Rules of 1920.

Examinations are conducted or recognized by the Inst. for the two purposes of Registration of P.A.'s and the admission to the Inst. of Fellows, Associates and Students.

The Inst. recognizes as Preliminary examns. the Matricn. examn. of any Univ. in the U.K., the examns. recognized by the Board of Educn. as approved examns. in respect of Secondary Schools, Nos. 1*a*, 2, 4*a*, 8(*a*), 9, 10, 13, 15*c*, 16, of the list on p. 626, and several others.

The Inst. holds each year (i.) Intermediate (fee, 2 gs.), and (ii.) Final examns. (fee, 3 gs.), qualifying for Registration. Latest date for entry, April 1. Subjects of (i.): A. Patent Law and Practice, Designs, Trade-marks, Foreign Law, the reading of Mechanical Drawings; B. Manufactures, Science, and the preparation of Mechanical Drawings. Subjects of (ii.): A. Preparation of Specifications for British Colonial and Foreign Patents; B. Interpretation of British Specifications. Candidates for admission to (i.): must have passed one of the approved Prelim. examns. and (*a*) have served 3 yrs. as a pupil or technical asst.

to one or more registered P.A.'s or (*b*) have so served for 2 yrs. *and* attended a 2 yrs.' course at an approved Tech. Coll. or had 2 yrs.' approved practical experience, or (*c*) have so served for 1 yr. *and* taken a degree at a Univ. of the U.K. or attended a 3 yrs.' course at an approved Tech. Coll. or had 3 yrs.' approved practical experience, or (*d*) be entitled to practise as a Solicitor or (Scotland) Law Agent.

Candidates for admission to (ii) must have passed (i.) and have served as above for a period of 2 yrs. in excess of term prescribed under (*a*), (*b*), or (*c*) above, as case may be, or be entitled as in case (*d*).

Minimum age for membership of the Inst.—25. Other qualifications: For Fellowship, (*a*) having ceased to be an Associate by reason of being in practice on own account as P.A.; (*b*) having passed Final examn.; (*c*) special dispensation in case of candidate specially approved by the Council. For Associateship (not applicable to person registered as a P.A.); (*a*) being qualified and able by reason of connexion with the Law, Science, or the Arts, to advance the objects of the Inst.; (*b*) being pupil or asst. of 3 yrs.' standing of a Fellow or a Student attached to the Inst. and having passed Interm. Examn. For Foreign Membership: having been established in practice as P.A. for a sufficient time not less than 3 yrs. in a British Colony or Dependency or in a Foreign Country and neither having an office nor practising in the U.K.

Minimum age for "Studentship"—18. Other qualifications: being an articled pupil of a Registered P.A. and having passed an approved Prelim. examn.

Fellows may use the initials C.P.A. after their names.

Entrance fee for Fellow, 3 gs.; Assoc., 2 gs.; Foreign Members, 2 gs.; Student, 1 g. Annual subs.: for Fellow, 3 gs.; other classes, 1 g.

XIV

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

Address—17 Bloomsbury Sq., London, W.C.1.

Examinations (open to women as well as men) are held in London and Edinburgh in Jan., April, July, and Sept. or Oct.: the *Chemist and Druggist Qualifying* examn. (fee, 12 gs.), for registration under the Pharmacy Act, 1868; the *Major* examn. (fee, 3 gs.) and the *Pharmaceutical Chemist Qualifying* examn. (fee, 12 gs., April and July) for registration as Pharmaceutical Chemist (Ph.C.) under the Act of 1852. No person can be admitted to any portion of the Qualifying examn. who is not a *Registered Apprentice or Student*, and this involves passing in English, Arith., Algebra, Geom., and 2 optional subjects at not more than 3 approved examns. It is recommended that one of the optional subjects be Latin. Among the approved examns. are those numbered

in the list on p. 626 as 1, 2, 3, 4, 5, 6, 7 (Junior), 8, 9, 9*a*, 10, 10*a*, 11, 12, 13, 13*a*, 13*b*, 13*c*, 14, 16, 16*a*, 19, 20, 21, 23, 23*a*.

In 1925 the Qualifying examn. was passed by 718 persons, the Major examn. by 24.

The Society's *School* is recognized by the Univ. of London as a School of the Univ. in Pharmacy, and the Dean of the School is Univ. Prof. of Pharmaceutics

XV

INSTITUTE OF PHYSICS

Founded 1918 by co-operation in the first instance of the PHYSICAL, the FARADAY, and the OPTICAL Societies, and incorporated under the Companies' Acts in 1920. Other participating Societies are: The ROYAL MICROSCOPICAL Society and the RÖNTGEN Society. *Address*—90 Great Russell Street, London, W.C.1.

Corporate members consist of two classes: *Associates* (A.Inst.P.) and *Fellows* (F.Inst.P.). Qualifications for Associateship include the passing of an examn. held by the Institute or a recognized equivalent examn.; and, in addition, a year's approved research or manufacturing experience. The examn. may be dispensed with in the cases of candidates with qualifications approved by the Board. A candidate for Fellowship has, in addition to his academic qualifications, to show a total record of 5 years' experience either in research or manufacture or in any position requiring a thorough knowledge of Physics. Entrance fees, 1 g. and 2 gs. Annual subsns. 1 g. and 2 gs. All classes of membership are open to women on the same terms as to men.

An *Appointments Register* and a *Panel of Consulting Physicists* are maintained.

A series of Lectures on "Physics in Industry" was instituted in 1922. Part I., published by Henry Frowde and Hodder & Stoughton in their "Oxford Technical Publications," price 2s. 6d.; II. and III., Oxford Univ. Press, 3s. each. The Institute produces the monthly *Journal of Scientific Instruments* in co-operation with the National Physical Laboratory. No. 1 appeared in Oct. 1923 (price 2s. 6d., subscription 30s. p.a., payable to Cambridge Univ. Press).

XVI

CHARTERED INSTITUTE OF SECRETARIES

OF JOINT-STOCK COMPANIES AND OTHER PUBLIC BODIES

Founded 1891. Incorporated by Royal Charter, 1902. *Address*—59A London Wall, London, E.C.2. Branches at Birmingham, Bristol, Liverpool, Manchester, Newcastle-on-Tyne, Nottingham (for N.E. Midlands), Bradford and Leeds (for West Yorks), Sheffield, Cardiff, Glasgow, and overseas in Canada (Montreal), Australia (Brisbane, Melbourne, and Sydney), and South Africa (Johannesburg).

Examinations are held in London and at various other places both at home and abroad in June and Dec. A candidate must either enter into Articles of Clerkship with a member of the Inst. for a period of 4 yrs. (if a graduate, 3 yrs.) or obtain registration as *Student* in course of preparation for the secretarial profession.

The *Preliminary* examn. (fee, 1 g.; min. age, 16) comprises English (Grammar, Compn., Dictn.), Engl. Hist., Geog., Elem. Maths., one foreign lang., and one of: Latin, Greek, Maths., Physics, Chem., Elem. Mech., Stenography. Exempting examns. include matricn of any recognized Univ. in the Empire, and those in list on p. 626 numbered 1, 2, 7, 8 (*a*) and (*b*), 9 or 10, 11, 12, 13, 13*b*, 14, 16, 19 (Higher Grade), 23*a*, and the Prelim. of Inst. C A. or Soc. of Inc. Accountants and Auditors, provided, in case of 16, that the candidate has passed in the above specified subjects; also Higher School Certifs. of Jt. Board (6), Ox., Camb., Durh., Bris. The Council may exempt any one whose educational status is equivalent to standard of Oxford or Cambridge School Certif. Examn.

For admission to the *Intermediate* (fee, 2 gs.) a candidate must have passed or been exempted from the Prelim. Graduates in Arts, Commerce, Law, or Science of recognized Univs. in the U.K., and persons who have passed the Final of the Bar Council, Law Soc., Inst. C.A., or Soc. of Inc. Acctts. and Audrs., are allowed a pass in the Interm. on attaining the usual standard of proficiency in any 4 of the specified examn. subjects they select approved by the Council, but must pass the Final as a whole before election to membership.

For admission to the *Final* (fee, 2 gs.; min. age, 21) a candidate must have passed the Interm. The subjects are: Economics, Sec. practice and duties, Law and practice in connexion with meetings, Book-keeping and Accts., Merc. Law, an approved foreign language, or Banking and Exchange, and one special law subject (*e.g.* Companies or Insurance).

Associate Membership (A.C.I.S.) can be obtained after 6 yrs.' service with a Public Coy. or Body; *Fellowship* (F.C.I.S.), after 8 yrs.', of which 3 have been as Secy. or Asst. Secy. A Fellow may describe himself as a Chartered Secretary; so likewise may an Associate if having

passed the Final Examn. he holds or has held office as a Secretary, Asst. Sec., Chief Acct., Registrar or Chief Clerk of a Company, or other body corporate.

Publications: *Yearbook*, *Secretarial Practice* (10s.), *The Secretary* (monthly, 1s.).

XVII

SURVEYORS' INSTITUTION

Founded 1868. Incorporated by Royal Charter, 1881. *Address*—12 Great George St., Westminster, S.W.1.

Professional examns. (fees: Interm. or Final, 4 gs.; Direct Fellowship, 5 gs.; applications receivable in Sept.) are held in March in London, Glasgow, and Dublin, and a Prelim. examn. (fee, 1½ g.) in Jan. in the same places and Manchester.

The *Preliminary* (min. age, 16), for admission of students, comprises Elem. Maths., Hist., Compn., and one of: Latin, French, German, Inorg. Chem., Botany, Geol. Candidates are expected to reach the standard of examn. No. 8 (*b*) of the list on p. 626.

Candidates for admission as *Student* (min. age, 18) are exempt from undergoing the Prelim. if they have passed any of the examns. Nos. 7, 8 (*a*) or (*b*), 9 or 10, 9*a* or 10*a* (Hons.), 11, 12, 13, 14, 16, 19 (Interm.), 23 and 23 (*a*), or the Matricn. examn. of any Univ. in the U.K., Inst. C.E. Studentship, Prelim. of Inst. C.A., R.I.B.A., Law Soc., Auctioneers' and Estate Agents' Inst. or Sandhurst or Woolwich.

Unless a pupil of a Surveyor a candidate must be taking a course, approved by the Council as bearing on the profession of Surveyor, at one of the Univs. of the U.K. or their Affiliated Colleges, or one of the following: Harper Adams Agr. Coll., Newport; University Coll., Reading or Southampton, College of Estate Management; Midland Agr. and Dairy College; Seale-Hayne Agr. Coll., Newton Abbot.

For admission to the (i.) *Intermediate* (min. age, 19), a candidate must, unless at one of the institutions above mentioned, be actually engaged in an office where he has opportunities of obtaining practical experience in the profession. The subjects are grouped thus: I. chiefly Land Agency, II. chiefly Valuation, III. chiefly Building or chiefly Quantities, IV. chiefly Mining. A candidate may select any one of these subdivisions. For the (ii.) ordinary *Final* examination the candidate must have passed the Interm. in the same subdivision which he takes for the Final. The (iii.) *Direct Fellowship* examn. (min. age, 30) may be taken, without having passed (i.) or (ii.), by a candidate who has been in practice on his own account for 5 yrs. After 1927 all candidates for (i.), unless they have passed one of the exempting examns., must have passed the Prelim. Examn. or, if over the age of 25, a special test of general education.

For election as *Professional Associate* (P.A.S.I.) a candidate must have passed (i.) and (ii.), and be in practice as a Surveyor on his own account or employed as an Asst. in a Surveyor's office. For the Fellowship (F.S.I.) a candidate must have passed either (i.) and (ii.) or (iii.), and had 5 yrs.' experience as, and still be, either a Principal or Responsible Manager in an established business or a Head of a Dept. in the office of a public body reporting direct to his Board or Council.

Scholarships worth £80, £60, and £50, tenable for 3 yrs. at any Univ. in Great Britain, have been established by the Council.

XVIII

TEACHERS REGISTRATION COUNCIL

Constituted by Order in Council, 1912. *Address*—47 Bedford Sq., W.C.1.

The Conditions of Registration are: (*a*) a degree or other qualification approved by the Council; if obtained in respect of a technological subject the applicant must have spent 36 months, after attaining the age of 16, in the practice of the profession or industry in question, and of this period 12 mos. must have been concurrent with or subsequent to the course for the degree (or other qualification); (*b*) successful completion of a course, extending over at least 1 academic year or its equivalent, of training in the principles and methods of teaching, carried on under conditions approved by the Council and accompanied by practice under supervision; (*c*) experience as a teacher in educational institns. accepted for the purpose by the Council for a period varying according to circumstances, but in no case less than 1 academic year.

Condition (*b*) is waived in the case of a teacher who has had not less than 3 academic yrs.' experience as Recognized Teacher in Univs. and institns. of Univ. rank approved by the Council for this purpose. Until Dec. 31, 1930, condition (*b*) will be modified in other cases where the Council is satisfied that special circumstances have prevented the applicant from taking an approved course of training in teaching.

Registration fee: A single and final payment of £2.

EDUCATION AND TRAINING FOR TEACHING IN ENGLAND AND WALES

N.B.—*The Board of Education have under consideration the Report of the Departmental Committee on the Training of Teachers, and the arrangements described below may be modified in* 1926.

The Board of Education have recently consolidated their Regulations on this subject, and introduced several changes designed to promote

the unity of the teaching profession and to remove barriers which have existed between its different branches, while giving ample scope for freedom and variety, which they regard as essential in the training of teachers, and encouraging Training Colleges to plan their schemes of training on different lines so as to provide for the requirements of the various kinds of school included in the national system of education.

Courses of Training qualifying for the Board's Certificate for Teachers in *Elementary Schools* are provided in independent Training Colleges and also in the Training Departments which form part of the work of all the Univs. (Wales—the Constituent Colleges; Durham—Armstrong College), both for men and (except Cambridge) for women, and also in the Univ. Colleges, Exeter, Nottingham, Reading, and Southampton.

The Board recognizes for grants in respect of courses preparatory to teaching in *Secondary* Schools: (i.) Departments of all the Univs. (ii.) Reading Univ. College, (iii.) 7 other Colleges. Cambridge provides for men only.

Candidates for admission as *Recognized students* must, unless this condition is specially waived by the Board in any case, be British subjects ordinarily resident in the U.K.; they must, as a rule, be over 18, and must at least be over 17 on the first day of the academic year for which they are admitted, must give satisfactory evidence of health, character, and suitability for the profession, and must have passed the Preliminary examination for the Elementary School Teachers' certificate or one of the examns. in the list on p. 626, numbered 7, 8 (*b*), 9, 10, 11, 12, 13, 14, or some other examn. as to which the Board are, in particular cases, satisfied that it is equivalent to these in range and standard; they must sign a declaration of intention to follow the profession of teacher in an Approved School. A married woman is not admissible without the special sanction of the Board.

Candidates who satisfy the above requirements as to age, attainments, and character may be admitted as *Private students* without giving the prescribed Undertaking, but no grants will be payable on their account except in certain special cases, and the fees chargeable to them will be correspondingly higher.

The principal *types of courses* approved are: (i) 4-year, including 3 yrs. of study for a Univ. degree followed by a year of professional training; (ii.) 2-year, including a period of prof. training taken concurrently with a period of academic study; (iii.) 3-year, providing a year of further training for selected students who have completed (ii.); (iv.) 1-year—(*a*) prof. training for graduates or other advanced students, or (*b*) a year of partly prof. and partly academic study for Certificated Teachers. The foregoing give a suitable training for teaching in Public *Elementary* Schools. Other types are: (v.) in preparation, extending over not less than a full academic year, for teaching in *Secondary* Schools; (vi.) professional instruction, extending, as a rule, over not less than a full academic year, for teaching in *Continuation* Schools; (vii.) in preparation for teaching *Domestic Subjects*.

As regards (i.), a student may be admitted to the 2nd, 3rd, or 4th yr. if he has completed 1 yr., 2 yrs., or the whole of the course for a

Degree before entering the Training Dept. and is over 18, 19, or 20 as the case may be. A student who has pursued a course of type (i.) will not as a rule be certificated as a Teacher unless he has passed a Final examn. for a Degree, but the Board may regard as qualified one who has failed to pass if he is specially recommended by the Univ. Authorities, or he may be recognized as a temporarily Certificated Teacher and subsequently qualify for permanent recognition.

(ii.) Suitable Univ. examns. forming recognized stages in courses for degrees may, subject to certain conditions, be approved for individual students in lieu of the Board's Final examn. Concessions similar to those above mentioned may be made to students who fail in a Final examn. for a degree.

(iii.) may include preparation for a Final examn. for a Univ. degree, provided an advanced course in the Principles of Teaching is included in it or taken separately, and certain other conditions are fulfilled.

For (iv.) any candidate who has not already served as a Certificated Teacher for 4 yrs must be over 19 and have passed the Final examn. for a Univ. degree, or the examn. for the Diploma of Assoc. in Letters or Science of Univ. College, Reading, or an approved School Leaving Certif. examn. conducted by a Univ., including special advanced papers in English, a foreign language, and one other subject, or the Oxford or Cambridge Higher Local, including Arith. and English, Maths. or Science, Languages or Hist. or Geog., or the Nat. Froebel Union Higher certif., or some corresponding or higher examn. approved for the purpose. No 1-year student may be allowed to enter for an examn. which forms a recognized stage in the course for a Univ. degree.

(v.) Persons who have obtained a Univ. degree in Honours or its equivalent may be admitted as Recognized students, and will be eligible for maintenance as well as tuition grants if they sign the prescribed Undertaking. Others who have obtained a Univ. degree or a Special Honours Higher Local certif. (Ox. and Camb.) fulfilling the special requirements of the Board may earn tuition grants for the Dept. even though not giving the prescribed Undertaking. Students who have been admitted for a 4-year course and obtained a Univ. degree in Honours or the equivalent may, on the recommendation of the Univ. authorities, take a type (v.) course instead of the fourth year of the type (i.) course.

A person, not under 21, who has obtained an approved degree in a Univ. of recognized standing or a Special Honours Higher Local certif. (Ox. or Camb.) fulfilling the special requirements of the Board may on certain conditions be recognized as a teacher in training in an approved Secondary School, the course extending over at least a full school year. If such a teacher has obtained an approved degree in Honours or its equivalent the School will be entitled to a tuition grant.

Teachers of any ordinary subject of instruction in recognized schools, etc., are eligible for *Studentships*: (*a*) "Special," not exceeding £100, for full-time courses of advanced study or research either at Univs. or institns. of Univ. rank in the British Empire, or at approved places in foreign countries; these are intended for teachers who are able to

obtain a term or longer period of grace from school teaching for the purpose, not for the whole or part of an ordinary degree course; (*b*) "Assisted," not exceeding ¾ of the fees of the proposed course, for approved part-time courses in Univs. or institns. of Univ. rank; teachers so assisted would continue their ordinary teaching work at the School.

The Training of Teachers in England and Wales: a Critical Survey, by Lance G. E. Jones, B.A., Balliol College, Oxford, was published in 1923 by the Clarendon Press, Oxford (486 pp., 10s. 6d.) for the Garton Foundation.

A *Joint Standing Committee* of the *Council of Principals of Training Colleges* and the *Training College Association* was formed in 1923 for consultation with the Board of Education. Hon. Secy., Miss Lloyd Evans, Principal of Furzedown College. Asst. Secy. (to whom communications should ordinarily be addressed), Miss K. B. Anderson, Whitelands College, Chelsea, S.W.3.

The *College of Preceptors*, Bloomsbury Square, London, W.C.1, grants the following Diplomas to teachers: (1) A.C.P., (2) L.C.P., (3) F.C.P. The examns. for (1) and (2) are divided into Part I. non-professional subjects, and Part II. the professional examn., including a practical test of ability to teach. The standard in each subject of Part I. for the A.C.P. is that of the same subject in the London Univ. Intermediate Arts examn., and in each subject of Part I. for the L.C.P. that of the same subject in the London Univ. B.A. Pass Examn. Before sitting for Part II. candidates must submit evidence of teaching experience as follows: 2 years' (for L.C.P.—3 years') experience in teaching, or one year's (for L.C.P.—2 years') experience and one year's approved training. The F.C.P. Diploma is granted to candidates who, having already obtained the L.C.P. Diploma, submit a satisfactory thesis on some original research or experimental work in Education.

The *College of Handicraft* (Hon. Registrar, J. Lloyd, A.C.P., F.Coll.H., 6 Bailey Street, Ton Pentre, Rhondda, S. Wales), a constituent part of the Institute of Handicraft Teachers, incorporated in 1924, grants certificates of competency as Teachers of Handicraft to members of the Institute who satisfy the Board of Examiners of the College. The standard of examination is stated to be that of a University Diploma in Education. A necessary qualification is recognition by the Board of Education as qualified teacher. Distinctive initials—M.Coll.H., etc. Academical dress may be worn by Members and Fellows.

The *Interchange of teachers between different parts of the Empire* and mutual recognition of certificates and service were among the subjects considered at the Imperial Education Conference held at London under the Chairmanship of the Permanent Secretary to the Board of Education in July 1923, and a report was prepared by a committee of the Conference on I. Interchange; II. Recognition of (*a*) service given elsewhere than in the country of origin—for the purposes of superannuation, (*b*) previous service—for calculation of salary in case of teachers who migrate; III. Recognition of teachers' certificates throughout the Empire.

The League of the Empire (124 Belgrave Rd., London, S.W.1)

promotes the interchange of teachers between the Mother Country and the Dominions on lines laid down by the Imperial Education Conference in 1923 (see preceding paragraph). The London County Council authorized the exchange of 50 teachers annually, and a number of local authorities in Great Britain also co-operate. Canadian, Australian, South African, and New Zealand Education Departments have reciprocated. A triennial Imperial Education Conference is held by the League; next meeting, 1927. A *Report of the Interchange of Teachers' Scheme*, 1907–1923, was printed for the 1924 Conference. This Conference endorsed the recommendations of the Education Authorities Imperial Conference of 1923 (see preceding paragraph) regarding the method of payment of salaries and the recognition of service abroad. The League has appealed for funds for establishing as a Memorial to the teachers who fell in the Great War a " Home Centre " in London, where teachers from any part of the Empire may find housing accommodation and a meeting-place. Hon. Treasurer, Sir Philip Hutchins, K.C.S.I., League of the Empire, 124 Belgrave Road, S.W.1.

An Overseas Education League, under the auspices of the Govts. of the Dominion of Canada, Newfoundland, New Zealand, and the Depts. of Education of Alberta, B.C., Manit., N.S., N.B., Ont., P.E.I., Que., Sask., New S. Wales, Vict., W. Aust., Natal, and Sierra Leone, undertakes the organization of official visits of Teachers to Great Britain and other parts of the Empire, interchange of Teachers and School Inspectors within the Empire. Tours for Canadian University Undergraduates to Great Britain and Europe are also arranged by the League. In 1925, for the first time, a party of British Secondary teachers and others visited Canada from Coast to Coast under its auspices. Office of the Hon. Organizer in Canada (the Exec. Secy., National Council of Education)—607 Boyd Bldg., Winnipeg.

The Fellowship of the Maple Leaf for the supply of British teachers for Western Canada is interested primarily in Elementary Schools, but also places teachers in Private Schools, High Schools, and Universities. Office—13 Victoria St., Westminster, S.W.1.

XIX

THE TEXTILE INSTITUTE

Founded 1910. Incorporated by Royal Charter 1925. *Address*—Head Office, St. Mary's Parsonage, Manchester. Branch office in Bloomsbury Square, London.

The Associateship (A.T.I.) and Fellowship (F.T.I.) imply respectively a good general knowledge of textile technology and systematic advanced study or research, with approved period of occupation.

GENERAL

National Union of Scientific Workers. Founded 1918. *Address*—25 Victoria Street, London, S.W.1. Aims at bringing together into one professional organization all qualified scientific workers, viz.: those engaged in (*a*) University and other Higher Educational Institutions and State-aided Research Institutions, (*b*) Industry and Consultative Practice, (*c*) State and Municipal Scientific Departments. Yearly subscription, 30s. (10s. reduction for members of Assocn. of University Teachers, Incorporated Assocn. of Asst. Masters, and Assocn. of Teachers in Technical Institutions). Official journal, published 6 times a year, *The Scientific Worker.* President, Prof. G. H. Hardy, M.A., F.R.S.; Genl. Secy., A. G. Church, D.S.O., B.Sc.

Professional Openings in the King's Dominions Overseas

Information on this subject is available in the *Professional Handbook* issued in 1924 by the Overseas Settlement Office, Caxton House, Tothill St, London, S.W.1, in 4 Parts: I. Barristers and Solicitors, Notaries Public; II. Physicians and Surgeons, Dentists, Vet. Surgeons, Nurses, Chemists and Druggists; III. Civil Service; Clerks, Stenographers, Typists, and Accountants; Governesses, Teachers; IV. Architects and Engineers, Auctioneers, Commercial Travellers, Police, Surveyors. Price of each Part, 9d.

XX

LIST OF EXAMINATIONS REFERRED TO IN THE PRECEDING APPENDICES

1. Oxford Responsions ;
1*a*. Oxford, First Public Examn. before Moderators ;
1*b*. Oxford, Prelim. Examn. in Jurisprudence ;
2. Cambridge Previous ;
3. London Matriculation ;
4. Durham Matriculation ;
4*a*. Durham, Examn in Arts for the 2nd year ;
5. Wales Matriculation ;
6. Joint Board of Northern English Univs. (Manc., Liv., Leeds Sheff., Birm.) Matricn. ;
7. The same Board's School (7*a*—Higher School) Certificate ;
8. Oxford and Cambridge Schools Examn. Board's (*a*) Higher, (*b*) School, (*c*) Lower Certificate ;
9. Oxford School Certificate (Senior Local) ;
9*a*. Oxford Junior Local ;
9*b*. Oxford Higher School Certif. ;
10. Cambridge School Certificate (Senior Local) ;
10*a*. Cambridge Junior Local ;
10*b*. Cambridge Higher School Certif. ;
11. Bristol School (11*a*—Higher School) Certificate ;
12. Durham School (12*a*—Higher) Certificate ;
13. London General School ;
13*a*. London General (School) Matricn. ;
13*b*. London Higher School ;
13*c*. London Junior School ;
14. Central Welsh Board's School or Higher Certificate ;
15*a*. University College, London, Matricn. ;
15*b*. King's College, London, Matricn. ;
15*c*. City and Guilds (Engineering) College, London, Matricn. ;
16. College of Preceptors, Senior ;
16*a*. College of Preceptors, Junior ;
17. University College, Southampton, Special Entrance (Engineering) ;
18. Scottish Univs. Preliminary in Science ;
19. Scottish Educn. Dept. Leaving Certif. ;
20. Belfast Matricn. ;
21. N.U.I. Matricn. ;
22. Dublin General at end of Senior Freshman year ;
23. Irish Intermediate (Middle Grade) ;
23*a*. Irish Intermediate (Senior Grade) ;
24. Responsions at St. David's College, Lampeter.

XXI

MATRICULATION EXAMINATIONS IN GREAT BRITAIN AND IRELAND AND EXEMPTION THEREFROM. (SEE ALSO APPENDIX XXIII.)

[The *School* and *Higher School* Examinations and Certificates referred to in this Appendix are those described on p. 4.]

(*a*) BIRMINGHAM, LEEDS, LIVERPOOL, MANCHESTER, AND SHEFFIELD

The Matriculation Examn. held at each of these Univs in July and Sept. (fee, £2) is conducted by a *Joint Board*. *Address* of the Secy. (J. M. Crofts), 315 Oxford Rd., Manchester. Candidates are required to satisfy the examiners at one and the same examn. in English Composition, in 5 subjects chosen as follows, and in the examn. as a whole: I. either English Literature or History; II. either Maths. or Latin; III. three other subjects, not already taken under I. and II., chosen from: 1. Engl. Lit., 2. Hist., 3. Geog., 4. either Music or Art, 5. Greek, 6. Latin, 7. French, 8. German, 9. some other Approved Language, 10. Maths., 11. Mechanics, 12. Physics, 13 Chem., 14. Physics-with-Chemistry, 15. Natural Hist., 16. Botany; provided that candidates who take Maths. under II. must include one of subjects 5-9, and those who take Latin under II. must include one of 10-16. The several Univs. impose special conditions for entrance to certain Faculties.

Exempting Examns. Those in the list on p. 626 numbered 1 and 2, London Intermediate examn., Intermediate examn. in Arts, Sc., or Med. of an approved Indian Univ., Final Examn. of Law Society (in case of Barrister or Solicitor entering Faculty of Law), Special Army Education Certificate at Advanced Standard; also, subject to provisos, Nos. 3, 7, 8 (*b*), 9, 10, 11, 12, 13, 14, 19, and at the Board's discretion other examns. of equal or higher standard. A degree conferred by an approved Univ. after examination also entitles to exemption. See also Appendix XXIII.

A *Special Examination* for *candidates of mature years* (not under 23 on May 1 of year of application) has been instituted. Applications (with fee, £2, and birth certif.) will be received up to May 1.

A *Special Examination* has been instituted for candidates not below 19 yrs. of age, who have been *engaged in industry and commerce* for at least 3 yrs. since leaving school, and have as students attended satisfactory day or evening courses for at least 3 yrs. Subjects: English, another modern language, one subject of the ordinary Matricn. examn., and a technical subject. Date, July. Fee, £2.

Special Regulations for Entrance to Faculties

BIRMINGHAM. Candidates entering the *Arts* faculty, except those taking a degree in Music, must have passed in Latin (or Greek) and a

Modern language. Candidates for the LL B. must have passed in Latin and a modern language. Those taking B.Sc. in *Pure Science* are recommended to take both French and German in Matricn examn.; those taking B.Sc. in *Engineering*, to take Mechanics and Additional Maths.

LEEDS. For admission to courses for the *B.A.* a Latin qualification is required. Candidates taking Physics as a principal subject for the *B Sc.* must produce evidence of an adequate knowledge of Mechanics. *Medical* and *Dental* students are ordinarily required to have passed in Maths. at the Matriculation Examn. Candidates for the *B.Com.* must have passed in at least one modern foreign language at the Matricn. Examn.

LIVERPOOL. Candidates for the *B.A.* are required to have passed in Latin or Greek at matriculation standard. *Engineering* students are recommended to pass in Mathematics (with the paper in Additional Maths.) and one of: Mechanics, Physics, Chemistry; they may not include Music or Art. *Medical* and *Dental* students must have passed in Physics and Chemistry and have attained 17 years of age.

MANCHESTER. Candidates for the *B.A.* ordinary degree must pass the Intermediate Examn. in Latin or Greek. Those intending to enter upon any Honours course in Arts (save Archit., Economics, Philos., and Geog.) must ordinarily have passed in Latin or, for Hons. School of German or English, in Greek, unless prepared to devote 4 years to the course. For admission to a degree course in *Science* Maths. and Mechanics are required. Candidates for the *LL.B.* must have passed in Latin at matriculation standard. For admission to a course for a degree in the Faculty of (*a*) *Medicine*, (*b*) Science, (*c*) Technology, respectively, are required: (*a*) Latin, Maths., and Mechanics, (*b*) Maths. and Mechanics, (*c*) Maths.

SHEFFIELD. Candidates for the *B.A.* with Honours (other than in Maths. or Economics) or for the *B.A.* ordinary degree must pass the Intermediate Examn. in Latin or Greek, and no language course for the Intermediate Examn. may be entered upon without proof of an adequate elementary knowledge of the language. *Medical* and *Law* students must have qualified in Maths. and Latin respectively. *Engineering* students should present Maths. and include Mechanics or Physics or Chemistry.

(*b*) BRISTOL

The University recognizes as qualifying for Matriculation: 1. *Graduation* in a Univ. in the United Kingdom or some other approved Univ. 2. *Higher school certificate*. 3. (i.) *School certificate* with credit in 5 subjects from groups i., ii., iii., at least one subject being taken from each group, and one being: (*a*) for faculty of arts—either Latin or Greek; (*b*) for other faculties—mathematics. For the purposes of this qualification credit in religious or scriptural knowledge is not reckoned. (ii.) *School certificate* if the Senate is satisfied that such proficiency has been shown in a particular group of subjects as to qualify for curriculum for degree. 4. *Scottish* Education Department's *Leaving*

Certificate. 5. Trained certificated *teacher's* qualifications, under certain conditions. 6. *Matriculation* examn. of any univ. of the United Kingdom; Oxford Responsions, including mathematics; Cambridge Previous examn. 7. Sufficient qualification for original *research* in case of candidate for research degree. 8. In exceptional circumstances sufficient education and attainments in case of candidate *over 23 years of age.*

(*c*) CAMBRIDGE

The *Previous Examination* comprises: I. (*a*) Latin, (*b*) Greek, (*c*) French, (*d*) German, (*e*) Italian, (*f*) Spanish; II. (*a*) Maths. (elementary), (*b*) Maths. (less elementary), (*c*) Experimental Physics and/or Chemistry; III. (*a*) English essay and précis writing, (*b*) Holy Scripture (Gospels and Acts of the Apostles), (*c*) English History.

Candidates must pass in at least two of the languages in Part I., including (*a*) or (*b*), in II. (*a*) and either II. (*b*) or II. (*c*), and in III. (*a*) and either III. (*b*) or III. (*c*). The parts may be taken separately.

Natives of Asia or Africa, not being of European descent, may offer English literature in lieu of one of the languages [other than (*a*)] in Part I., and Arabic, Chinese, Sanskrit, or Pali, in lieu of I. (*a*).

Exemption is obtainable by means of: 1. *School certificates*—(i.) with credit in 5 subjects (or in 4, one at least from each of groups i., ii., and iii.) of which one must be Latin or Greek, or (ii.) with less complete credit, giving only partial exemption; 2. *Higher School, Scottish Leaving,* or *Northern Ireland Senior Certificates,* subject to certain other conditions; 3. *Matriculation Certificates* (see below); 4. *Certificates of graduation* in any Univ. in Great Britain provided that in one of the examns. leading up to the degree the candidate passed in Latin or Greek; 5. *Affiliation* (see p. 57); 6. *Foreign Certificates* (see Appendix XXIII.).

Matriculation Certificates. A student who has passed one of the undermentioned "approved examinations" is exempted from Part I. of the Previous Examn. if he passed in 2 languages other than English, one of which is Latin or Greek, provided that both were taken on one and the same occasion; from Part II. if he passed in either Mathematics or Physics or Chemistry; from Part III. if he passed in English.

The "approved examinations" are: Oxford Responsions and the Matriculation Examn. of the other English Univs., the Univ. of Belfast, and the N.U.I. (see also Appendix XXIII.); the Preliminary Examn. in Arts or in Science of the Scottish Univs.; and examns. affording exemption from and examns. subsequent to matriculation in any of the above-mentioned Univs.

In exceptional circumstances the Council of the Senate may grant exemption in other cases.

(*d*) DURHAM

A Matriculation Examn. is held for admission to the *Durham Colleges* only. The subjects are (*a*) Modern History or English, (*b*) Mathematics.

(*c*) Chemistry, (*d*) Physics, (*e*) Logic, (*f*) Additional Mathematics, (*g*) Latin or Greek, (*h*) French or German, (*j*) Geography, (*k*) Botany, (*l*) Religious Knowledge, including Greek Testament, (*m*) Ancient History. Students in Arts or Theology must take 5 subjects, including (*a*), (*j*), and one of (*b*), (*c*), (*d*), (*e*); in Science—5 subjects, including (*a*) and (*b*), either (*c*) or (*d*), a foreign language, ancient or modern, and one selected from a list; in Music—any 4 of the above named or a foreign language and 2 other subjects.

The following are recognized for *exemption* from this examn.: (i.) *graduation* in any Univ. in the United Kingdom or other Univ. recognized by the Matriculation Board; (ii.) subject to certain conditions, *Higher school certificate, School certificate* with credit in not less than 5 subjects [other than Religious Knowledge and subjects in Group D], Matriculation examn. of any Univ. in Great Britain or Trinity College, Dublin, Oxford Responsions, Cambridge Previous; (iii.) Scottish Leaving Certificate, higher or honours grade.

In exceptional circumstances when a candidate is *over 23 years of age* other sufficient evidence of previous education and attainments is accepted. The Board interviews such candidates (in July only) submitting them to such examn. as it may think necessary.

For matriculation in the *College of Medicine* the following are recognized: I. (i.) graduation in Arts in a Univ. of the British Empire; (ii.) certain of the School and Higher School certificates, the Scottish Leaving Certificate, and Matriculation examns. of Univs. in Great Britain and Ireland, provided the candidate passed in English, Elementary Maths., Greek or Latin (Oriental Students—Sanskrit), French or German, or other approved modern foreign language, and one other subject from a list of 15.

For admission to *Armstrong College* the following are recognized subject to specified conditions as to required subjects (the candidate must have passed in either 5 at one examn. or 4 at one and 2 at a subsequent examn.): certain of the School (with credit) or Higher School certificates, the Scottish Leaving Certificate, and Matriculation examns. of Univs. in England. The required subjects are English, Elementary Mathematics, one of Latin or Greek or French or German, and 2 other subjects (or 3 when the candidate passed in only 4 required subjects at one examn.) from a list of 17.

Candidates of **more than 23 years of age* whose native language is English may be admitted on producing satisfactory evidence of educational attainments.

In special circumstances a special entrance examination may be taken by candidates who have been *engaged in technical pursuits* for 2 years approximately, and propose to study Engineering, Naval Architecture, Mining, Metallurgy, or Agriculture. The subjects of the Examn. (held in Sept.) are: English, a modern foreign language, Elem. Maths., two other selected subjects.

In special circumstances not provided for above, candidates may apply for exemption from ordinary requirements.

(*e*) LONDON

The University conducts 3 examns. qualifying for matriculation: 1. the ordinary Matricn. Examn., 2. the General School Examn., 3. the Examn. under Statute 116. As regards 2. and 3., see pp. 112, 638. To pass 1. a candidate must at one and the same examn. satisfy the examiners in English, Elementary Maths., and 3 of the following: (*a*) Latin, (*b*) Greek, (*c*) Botany, (*d*) Chemistry, (*e*) Heat, Light, and Sound, (*f*) Mechanics, (*g*) Electricity and Magnetism, (*h*) French, (*j*) German, (*k*) Italian, (*l*) Russian, (*m*) Spanish, (*n*) another approved language, (*o*) History—Roman or Greek, or English, or European, or of the British Empire, (*p*) Geography—physical and general, (*q*) Logic, (*r*) Drawing—geometrical and mechanical, (*s*) Maths —more advanced, (*t*) Zoology, (*u*) Geology, (*v*) Music—theory, (*w*) Economics. One of the 7 subjects (*a*) to (*g*) must be included, and one of the subjects offered must be a language other than English At the Intermediate Examn. in Arts it is compulsory to offer (*a*) or (*b*), whether taken at the Matricn. examn or not. Law students are advised to offer (*a*) and English History at their Matricn. Examn.

Exemption may be obtained (1) by graduates of approved British, Colonial, and Indian Univs. and persons who have passed all examns. required for a degree in those Univs.; (2) subject to certain conditions, among them the passing with credit in five subjects at one and the same examn., persons who have passed the examns. numbered 7, 8 (*b*), 9, 10, 12 in Appendix XX.; (3) subject to other conditions persons who have passed examns. 2, 6, 8 (*a*), 19.

(*f*) OXFORD

Responsions comprises: I. (*a*) Latin, (*b*) Greek; II. (*a*) English, (*b*) French, (*c*) German, (*d*) Italian, (*e*) Spanish; III. (*a*) Maths., (*b*) Natural Science. To pass a candidate must have satisfied the examiners *either* in both subjects from Group I. and in both subjects from Group III., *or* in at least one from each group and in 4 subjects in all; he must also have passed in 2 languages other than English, and either have passed in all 4 subjects at one examn. (in which case special merit in one or more subjects may compensate for comparative weakness in any one) or in 3 at one examn. and in a fourth at a subsequent examn.

Exemption may be obtained: A. by persons qualified to become Affiliated, Colonial, Indian, or Foreign students; B. subject to certain conditions, including passing in two languages other than English, of which either Latin or Greek shall be one, persons who have passed a School or Higher School Certificate Examn. or gained a class in the Final Senior Freshman Examn. of Dublin or a Scottish Preliminary Examn. Certificate, or passed any of the examns. numbered 2, 3, 5, 6, 19 in Appendix XX., or the Northern Ireland Senior Certificate, or the Intermediate Arts or higher examn. of Birmingham, Durham, Leeds, Liverpool, London, Manchester, or Sheffield.

(*g*) WALES

The Matriculation Examn., the passing of which is a condition of matriculation for students of the constituent Colleges who have not

passed an equivalent examn., is held at each of these Colleges about the end of Jan. and the end of June each year. The subjects are (*a*) English, (*b*) Latin, (*c*) Greek, (*d*) Welsh, (*e*) French, German, other approved languages, (*f*) History, (*g*) Music, (*h*) Mathematics, (*j*) Dynamics, (*k*) Physics (including Mechanics), (*l*) Chemistry, (*m*) Botany, (*n*) Biology, (*o*) Geography. A candidate must pass at one and the same examn. in 5 subjects, including (*a*), one of (*b*), (*c*), (*h*), at least one language [and not more than two unless both (*b*) and (*c*) are offered] in addition to English, and either (*h*) or one of (*j*) to (*o*). No candidate may offer both (*j*) and (*k*) or both (*m*) and (*n*).

Examinations recognized as equivalent subject for subject: (*a*) The Matricn. examns. of London, of the Northern English Univs. Joint Board, or of Dublin, or the Preliminary Examn. of the Scottish Joint Board; (*b*) School Certificate Examns. (except Durham's), the Leaving Certificate (Higher Grade) of the Scottish Education Dept., the Senior Certificate of the Ministry of Education for Northern Ireland, and the Leaving Certificate of the Intermediate Education Commissioners of the Irish Free State (with credit at one and the same examn. in each of the subjects required by the Welsh matricn. regulations). A pass in a "First Examn." in Music gained before 1925 will not count for exemption nor will other passes before July 1, 1924, except in accordance with conditions for exemption then in force.

Candidates of 23 *or more years of age* may be exempted on the special recommendation of a constituent College.

(*h*) Scottish Univs., see pp. 258 and 641

(*j*) Belfast

The Matriculation Examn. comprises English, Mathematics, and 3 of the following: (*a*) Greek, (*b*) Latin, (*c*) French, (*d*) German, (*e*) Italian, (*f*) Spanish, (*g*) Modern History, (*h*) Physics or Mechanics, (*j*) Geography, (*k*) Chemistry, (*l*) Botany, (*m*) for Faculties of Arts, Commerce, Applied Science, and Technology—Celtic, (*n*) for Science, Medicine, or Applied Science or Technology—Mechanical Drawing; for Commerce—(*o*) Elementary Economics, and (*p*) Accounting. For Arts, Science, or Medicine one language other than English must be taken; for Commerce—French or German or Spanish; for Applied Science or Technology—one of the languages (*a*)-(*f*).

For Engineering students there is a special Matricn. Examn. comprising English, Maths., Further Maths., Greek or Latin or French or German or Italian or Spanish, Physics or Chemistry, Modern History or Geography.

A candidate who has passed in at least 3 subjects, but failed to pass the examn. as a whole, is allowed to complete his matricn. at the next subsequent examn.

For *exemption* the Univ. recognizes 1. graduation in a British Univ.; 2. the Final Junior Freshman Examn. of Dublin, provided the candidate has passed in the subjects required by Belfast and, in the case of medical students, the subjects required by the G.M.C.; 3. for entry to any

faculty the candidate would have been entitled to enter in the Univ. whose examn. he has passed—the examns. numbered 1, 2 (Parts I. and II.), 3, 5, 6, 13, 21 in the list in Appendix XX. or the examn. of the Scottish Univs.' Entrance Board ; 4. subject for subject—the examns. 8 (*a*), 8 (*b*) (with credit at one and the same examn. in all subjects), 9, 10, 11, 19 (Higher or Honours), 23 (*a*), and certain others.

Students of mature age (not less than 23) may be admitted without passing the ordinary Matricn. Examn. Applications are dealt with by a special committee of the Academic Council, who may submit such candidates to such tests of their fitness to profit by the courses of the Univ. as they may consider necessary in each case.

(*k*) Dublin

The Matriculation Examn., held five times a year, comprises English Composition, Mathematics, English History, Modern Geography, Latin, and one of : Greek, French, German, Italian, Spanish, Irish.

Exemption, partial or complete, may be obtained by candidates who hold the leaving certificate of the Department of Education, or any other examn. regarded by the Senior Lecturer as equivalent thereto.

(*l*) National University of Ireland

The Matriculation Examn., held twice a year, comprises six groups of subjects : (*a*) Irish, (*b*) Latin or Greek, (*c*) any modern language approved by the Senate, (*d*) English, (*e*) Maths., (*f*) Latin, Greek, any modern language approved by the Senate, History, Geography, Applied Maths. *or* Physics, Chemistry, Botany (for women candidates only), Physiology, and Hygiene. Candidates must pass in 5 subjects, and none except engineering students may present more.

Those born in Ireland, whose home residence has not been outside Ireland during the 3 preceding years, must pass in Group I. Others may present in lieu of Irish either a second language or a second Science subject ; they will be expected to attend a course in Irish Literature and History before obtaining a degree in the Univ. Students entering for Degrees in (1) Arts, Philosophy, and Celtic studies, (2) Law, (3) Medicine or Dentistry, (4) Science and Commerce, (5) Engineering, must take : (1) subjects in groups (*a*), (*b*), (*d*), (*e*), (*f*) ; (2) Latin, and subjects in (*a*), (*d*), (*e*), (*f*) ; (3) Latin, (*a*), (*d*), (*e*), and a fifth subject, but if already registered by the G.M.C., students may take the subjects prescribed for any other faculty ; (4) or (5) one from each of (*a*), (*d*), (*e*), and two others from (*f*).

Exemption. Passes in the Intermediate Senior Grade or the Leaving Certificate Examn. in any of the subjects recognized for matriculation are accepted as equivalent to passes in these subjects at the Matricn. Examn. even though the former examn. was not passed as a whole. Provided that the subjects required have been passed, the Univ. accepts the following in lieu of their own Matricn. Examn. : the examns. numbered 1, 2 (Parts I. and II.), 9, 10, 19 (Higher), in Appendix XX., and the Scottish Preliminary Examn.

XXII

STUDENTS FROM OTHER COUNTRIES IN THE UNIVERSITIES AND UNIVERSITY COLLEGES OF GREAT BRITAIN AND IRELAND *

From AFRICA 1150, AMERICA 816, ASIA 1718, EUROPE 653, THE PACIFIC 332. Grand total 4669. The number of students from each of the countries which contributed largely to these totals and the names of the institutions which received them in large numbers are given below :

AFRICA. *Egypt.*—Total 351 : at Birmingham 61, Cambridge 13, Leeds 16, Liverpool 14, London colleges 119 (Imperial College 11, School of Economics 15, Medical Schools 41), Manchester 33, Sheffield 11, Edinburgh 42. *Mauritius.*—31 : at London 21. *Nigeria and West Africa*—46. *South Africa and Rhodesia.*—716 : at Cambridge 61, Newcastle College of Medicine 11, Liverpool 33, London colleges 355 (University College 12, Imperial 10, Medical schools 247, Schools of Music 49), Oxford 73, Aberdeen 10, Edinburgh 86, Glasgow 28, Dublin 32.

AMERICA. *Canada and Newfoundland.*—151 : at Cambridge 19, London colleges 54 (University College 10, Schools of Music 15), Oxford 45, Edinburgh 23. *South America.*—81 : at Cambridge 15, London colleges 30, Manchester 11, Edinburgh 11. *United States.*—434 : at Cambridge 62, London colleges 116 (University College 25, School of Economics 32, Medical schools 19), Oxford 188, Edinburgh 50. *West Indies.*—139 : at Cambridge 10, London colleges 56 (Medical schools 34), Edinburgh 35.

ASIA. *China.*—110 : at London colleges 55 (University College 11, School of Economics 11, Medical schools 11), Edinburgh 21, Glasgow 10. *India, Burma, and Ceylon.*—1301 : at Birmingham 12, Bristol 22, Cambridge 151, Leeds 20, London colleges 619 (University College 106, King's 45, Imperial 60, School of Economics 65, Oriental Studies 38, Medical schools 192, Veterinary 11, Polytechnics 38), Sheffield 23, Edinburgh 174, Glasgow 88, Belfast 14. *Japan.*—102 : Cambridge 14, London colleges 64 (University College 20, School of Economics 32). *Malaya.*—41 : London colleges 23. *Mesopotamia.*—12. *Palestine.*—

* Compiled from lists received from all Universities and University Colleges. A consolidated list of names of the students has been printed, and can be obtained from the Universities Bureau. Many students from other countries study without enrolling in any university or university college. Among them are law students and students in technical schools and research institutes. None of these are included herein.

42 : London colleges 34 (School of Economics 13). *Persia.*—14. *Siam.*—77 : Cambridge 12, London colleges 18.

EUROPE. *Austria.*—16 · London colleges 12. *Czecho-Slovakia.*—12. *Denmark.*—13. *France* —47 : London 22. *Germany* —78 : London 62 (University College 19, School of Economics 36). *Greece.*—25. *Holland.*—41 : London 13. *Hungary.*—26 : London 14. *Italy.*—22 : London 11. *Latvia.*—18 : London 15. *Norway.*—18. *Poland.*—48 : London 32 (School of Economics 17). *Roumania.*—26 : London 14. *Russia* —99 : London 80 (University College 23, Imperial 14, School of Economics 15). *Serb-Croat-Slovene State.* — 18. *Spain.* — 18. *Sweden* —22 : London 16. *Switzerland.*—64 : London 44 (University College 13, School of Economics 17).

THE PACIFIC. *Australia.*—217 : Cambridge 39, London colleges 100 (University College 15, Medical schools 41, Schools of Music 18), Oxford 42, Edinburgh 22. *New Zealand.*—114 : Cambridge 30, London colleges 46 (University College 10, Medical schools 13, Schools of Music 14), Oxford 24.

ALL COUNTRIES.—Birmingham 105, Bristol 40, Cambridge 493, Leeds 73, Liverpool 69, London colleges 2158 [University College 366, King's 124, Imperial 149, School of Economics 344, Oriental Studies 59, Bedford (women) 39, Medical schools 673, Schools of Music 157], Manchester 179, Oxford 530, Sheffield 45, Edinburgh 525, Glasgow 207, Dublin 37.

XXIII

ADMISSION AS UNDERGRADUATES OF THE UNIVERSITIES OF GREAT BRITAIN AND IRELAND OF PERSONS EDUCATED ABROAD

The following notes relate to the admission of students from other countries proposing to take full courses for a First degree, excluding from consideration those who seek admission with advanced standing on the ground of having already pursued courses in other Univs.* and those who seek only to study without aiming at a degree.

A comparison of the regulations of the several Univs in question governing admission of such students discloses a general agreement in principle, with divergencies in application.

The regulations are drafted on the understanding that the application to a student educated in another country of the ordinary entrance tests might be inappropriate owing to these tests having been framed with reference to secondary education curricula different from those which obtain in his own country, or to the student having reached a stage in his education at which the passing of ordinary entrance tests would involve a wasteful repetition of preparatory studies. They accordingly provide for the acceptance from such a student of other evidence of academic qualifications: ordinarily certifs. which would entitle to admission to a Univ. in the student's own country, together with such further evidence as may be necessary to ensure that no student shall be admitted to a course of study for a degree without a reasonable prospect of his being able to pursue it to graduation; in particular, if the student be one whose mother tongue is not English, evidence that he has a sufficient mastery of this language to enable him to follow courses of instruction conducted in English.

The lines along which this policy has been applied in the several Univs. may be briefly indicated as follows:

At *Oxford and Cambridge* "Responsions" and the "Previous" Examn. respectively take the place of the Matriculation Examn. of other Univs. An *Adviser to Colonial and Foreign Students* is attached to the Univ. Registry at Oxford.

Exemption may be obtained, not only from Responsions (and also the Examn. in Holy Scripture) or the Previous Examn., but also from the Entrance Examns. of the other Home Univs., by passing the Oxford or Cambridge Senior Local Examns., which are held in various parts of the British Empire overseas.

Oxford Responsions. Exemption may be granted to any person who has obtained (1) a certificate of having passed *either* (*a*) the matricula-

* A résumé of Regulations regarding such concessions is given on p. 15.

tion examn. of the Joint Board of the South African Universities, *or* (*b*) the Secondary School Certificate Examn. of the Education Dept. of the Transvaal or (Senior Certif.) of the Cape Province, provided that it shows that he has obtained at least 60 p.c. in each of two of the languages Latin, Greek, French, German, Italian, Spanish, of which Latin or Greek must be one ; or

(2) a certificate or certificates of having passed one of the following, provided he has satisfied the examiners in two of the said languages of which Latin or Greek must be one :

Univ. of McGill Matricn., or First Year in B.A. course ; Ontario Educn. Department's Junior Matricn. ; Univ. of Toronto Senior Matricn., or First Year ;

Univ. of Adelaide Senior Public ; Univ. of Melbourne School-leaving (Class B) ; Univ. of Tasmania Public Leaving ; Univ. of W. Australia School-leaving ; New South Wales Educn. Department's Leaving Certif. ;

New Zealand Matricn. or Entrance Scholarship ;

Univ. of Malta Matriculation ;

Univ. of Hong-Kong Senior Local ;

Part I. of the Baccalauréat de l'Enseignement Secondaire in France ; or

(3) A certificate or certificates qualifying him for admission to a univ. in the Republic of Austria, Belgium, the Czecho-Slovakian Republic, Denmark, Finland, France, the German Reich, Holland, Hungary, Italy, Norway, Poland, the Serb-Croat-Slovene State, Sweden, or Switzerland, provided it shows that he has satisfied the examiners in either Latin or Greek ; also to any person who has obtained the degree of B.A. or B.Sc. at an approved Indian Univ., provided that his course at his Indian Univ. included the study of English and one of the languages, Latin, Greek, French, German, Sanskrit, Arabic, Persian, Pali, Classical Chinese.

Cambridge Previous Examn. Exemption may be granted from the several Parts of the Examn. to a person who (i.) has passed the Matricn. Examn. of British Columbia, McGill, Toronto, Adelaide, Melbourne, Queensland, Sydney, Tasmania, W. Australia, New Zealand, any of the Univs. of S. Africa or an examn. affording exemption from, or subsequent to the matricn. examn. in any of these Univs. (see also Appendix XXI.), or (ii.) holds a certificate qualifying for admission without further examn. into the Univ. of any European state, or (iii.) holds the Egyptian Govt. secondary education certif. and is not of European parentage, as follows :

(i.) From Part I. if he has passed in 2 languages other than English, one being Latin or Greek, provided that both have been taken on one and the same occasion ;

From Part II. if in either Mathematics or Physics or Chemistry ;

From Part III. if in English.

(ii.) From Part I. if he has passed (either in the Examn. in question or in another Univ. Examn. in the same country, certified by the authorities

of the Univ. as ranking higher) in 2 languages other than his mother-tongue, of which one is Latin or Greek.

From Part II. if in either Mathematics or Science ;

From Part III. if in a Modern Language other than that used for exemption from Part I.

(iii.) From Parts II. and III. and also, provided that in one at least of the 2 examns. for the certif. he has passed in French, from Part I.

Exemption from the whole of the Examn. may be granted to a student from the U.S A. who has (1) passed the College Entrance Examination Board's Examn., (2) qualified for admission to one of the undermentioned Univs. or Colleges in the U.S.A. and passed some examn. or examns. conducted by one of them. Provided that the examns. passed cover English (3 units or an equivalent standard), Latin or Greek (4), a third language (3), and Maths. (3).

The following is a list of Univs. approved by the Univ. of Cambridge for the purposes of acceptance of their graduates as *Affiliated Students*, who are exempt from the Previous Examn. : (1) In Great Britain and Ireland—all ; (2) in Canada—Alberta, Br. Col., Dalh., McGill, Manit., New Bruns., Queen's, Sask., Tor. ; (3) in Australia—all ; (4) New Zealand ; (5) Hong-Kong ; (6) in S. Africa—all ; (7) in India—Allah., Bom., Calc., Dacca, Madras, Panj. ; (8) in U.S.A.—Calif., Chic., Columbia, Corn., Dartmouth, Harv., Ill, Johns Hopkins, Mich., Minn., Penn., Prin., Virg., Wisc., Yale ; (9) Basle, Berne. Graduates of St. David's College, Lampeter, are likewise accepted.

A candidate who has obtained a 1st class in the Intermediate Examn. in Arts or Science, or a 1st or 2nd class in the examn. for the B.A. or B.Sc. in an approved Indian Univ. is exempted from the Previous Examn. provided that in some examn. leading up to the B.A. or B.Sc. in that Univ. he has passed in Arabic, Persian, Persian-with-Arabic, Sanskrit, or Pali, in Maths. or Science, and in English.

London accepts certifs. of matricn. of Colonial Univs., and (provided they indicate a standard *prima facie* involving an education equivalent in the student's own country to that required in England for matriculation in London) Indian or Foreign certifs., as grounds for exemption from the ordinary Matriculation Examn. of students of not less than 19 years of age, but requires all candidates so exempted, except those who have passed under prescribed conditions the Matricn. Examn. of Adelaide, Melbourne, or West Australia, to undergo in London a shortened form of this examn. under Statute 116 (see next paragraph). London also arranges for the holding of its own ordinary Matriculation Examn. in the Colonies and self-governing Dominions upon the application of the local Governments. As regards graduates, see p. 106.

The Examination under Statute 116 held in London, usually in March, May, Sept., and Dec., comprises four subjects, of which English and either Mathematics or Logic are compulsory. Any certificates that the candidates may present, or any examn. he may have passed, may be taken into account ; but in every case he is required to undergo a *viva-voce* examn., and a sound elementary knowledge of English is

necessary. The written portion of the examn. lasts one day. The fee is £5 : 5s. No syllabus is published. Applications should be addressed to the External Registrar.

The Northern (English) Universities Joint Board. Subject to Special Regulations for Entrance to particular Faculties, exemption from the Matriculation Examn. is granted to a student who holds the Secondary Education Certif. of the Egyptian Ministry of Education, or has passed the Interm. Examn. in Arts, Sc , or Med. of an approved Indian Univ., and may, at the discretion of the Board, be granted to " applicants holding certifs. of having passed examns. of a standard at least equal to " Oxford Responsions, Cambridge Previous, etc. The procedure at Liverpool is as follows : Applications, with references, from Foreign and Indian undergraduate students are receivable up to June 1, from Egyptian up to July 31. In respect of Indian and Egyptian undergraduate students the Students' Dept. of the High Commr. for India and the Egyptian Educational Mission are asked to certify as to the character, qualifications and suitability of applicants.

Leeds has an Overseas Students' Committee.

Durham. Foreign students may matriculate provided they satisfy a special Committee that they have passed in their own country an examn. of a standard deemed sufficient for matriculation, and that they have sufficient knowledge of English to profit by the proposed course of study. The Matricn. Examns. of the Univ. of Sydney and the Univs. of S. Africa are recognized as exempting from that of Durham.

Durham Colleges : Graduates of Univs. in the U.K. or of other approved Univs. are admitted without further examn. A candidate educated elsewhere than in Great Britain may matriculate if he has passed examns. deemed by the Matricn. Board to be sufficient. Students in Codrington College, Barbados, and Fourah Bay College, Sierra Leone, may matriculate (and qualify for degrees) locally.

College of Medicine : Examns. qualifying for a degree in Arts of any Univ. of the British Empire are accepted, subject for subject, for exemption from the ordinary matricn. examn. Candidates from a British Colony who have passed an examn. which would admit them to a medical degree course in such Colony are accepted for matricn. if the examn. satisfies the requirements of the G.M.C. Candidates from India must have passed the Interm. Examn. of one of the recognized Indian Univs., and be registered on the books of the G.M.C.

Armstrong College : Foreign or Colonial students must have passed in their own country an examn. of English matriculation standard in the required subjects, and must have a sufficient knowledge of English to profit by the proposed course of study. In the case of Indian students no examn. lower than the Interm. of an Indian Univ. will be considered for this purpose.

Bristol. A candidate educated elsewhere than in the U.K. may submit to the Senate evidence of having passed examns. elsewhere equal to the Matriculation Examn. of any Univ. of the U.K., or to any of the other examns. which qualify for matriculation at Bristol; if from an oriental country, he may submit evidence of previous education in his

own country and of ability to follow instruction given in English. The Senate may thereupon, if satisfied with the evidence, declare him eligible for matriculation.

Wales. Candidates who have qualified by examn. for a degree of an approved Univ. or College, or passed the Matriculation Examn. of the South African Univs. or of the Swiss Univs, or the secondary school certif examn. of the Transvaal or Cape Province Education Department in the subjects required by the Univ. matricn. regulations, or, if certified by a Constituent College as possessing sufficient knowledge of English to profit by a degree scheme of study, the Intermediate Examn. in Arts or Science of an approved Indian Univ., may matriculate without further examn.

Scottish Universities. Candidates from the British Dominions or Colonies may be exempted from the Preliminary Examn. if they have passed examns. which would admit them to a course qualifying for graduation in Arts or Science in Univs. or Technical Colleges affiliated to a Univ. in the Dominion or Colony from which they come, provided (1) their knowledge of English is sufficient to enable them to follow the courses of instruction with profit; and (2) if candidates for degrees in Engineering, they have a knowledge of Mathematics of a certain specified standard. Those whose native language is other than English are required to pass an examn., oral and written, in this language, including set books. Students from India are subject to the further condition that they have passed the Intermediate Examn. in Arts or Science, as the case may be, in a recognized Indian Univ.

Certificates which would entitle the holder to enter upon a regular course of study leading to a degree in Arts, Pure Science, or Medicine in any of the Univs. or Colleges approved by the Assocn. of American Univs. (see Appendix XXV.) are recognized for exemption from the Prelim. examn.

As regards students from foreign European countries, the B. ès L. and B. ès Sc. and similar " certifs of Maturity or Grades, entitling the holder to enter upon a regular course of study in the Univs. of his own country " are accepted subject to the above-mentioned conditions as to knowledge of the English language. Certain Egyptian, Argentine and Chinese certifs. are also recognized. Provision is not made specifically for the acceptance of other foreign certifs., but the Board has a general dispensatory power in regard to applicants of not less than 21 years of age who satisfy it as to their fitness.

N.B.—In each Univ. the Senatus may for any particular class, attendance on which for a specified period is necessary in order to qualify for graduation, determine the conditions of admission to such qualifying attendance.

A Certificate submitted as proof of title to admission to Univs. abroad should be accompanied by an authenticated declaration by a Government Official or Official of an Agency-General, Embassy, Legation, or Consulate of the country to which the applicant belongs, testifying that it has the alleged value. If in a foreign language, certificates should be accompanied by certified English translations.

Belfast. Matriculated students of Univs. outside the British Isles may send written statements and certifs. which should, as a rule, cover all subjects required for matricn. in the Faculty concerned. When a certif. in any subject is not available, other evidence of proficiency may be furnished. The Matriculation Examn. of the Joint Matricn. Board of the Univs. of S. Africa and the Intermediate Examns. of certain Indian Univs. (Alig., Alld., Ben., Bom., Calc., Dacca, Delhi, Luck., Mad., Patna, Panjab, Rang.) are accepted as equivalent, subject for subject, to the Belfast Matricn. Examn. Entrants who are graduates of a British Univ. are not required to pass the Matricn. Examn.

Dublin admits students who have passed the Matricn. Examn. of any Univ. in S. Africa including English, Mathematics, Latin, and one other approved language. The Senior Lecturer is empowered to exempt from the Matriculation Examn. any student who has passed in the subjects required at matriculation at a public examn. which is, in his opinion, of equivalent standard. See, however, p. 306 regarding compulsory subjects in Arts course.

National University of Ireland. The Senior Public Examns. of Sydney, Melbourne, and Adelaide, the Jaffa Gymnasium Maturité, and the Matricn. Examns. of Sydney, Melbourne, and New Zealand, and of the Matricn. Board of S. Africa, are recognized as qualifying for exemption from the Matricn. Examn. The Matricn. Examns. of other Univs. in the British Empire overseas (excluding India) are recognized only in combination with an Intermediate Examn. in Arts or Science.

Continued from p. 632.]

(*h*) SCOTTISH UNIVERSITIES

Qualifications for admission to degree courses in Scottish Universities after Jan. 31, 1927.

I. Scottish Education Dept.'s Group Leaving Certificate showing passes (including at least two on the Higher Standard) in at least 4 of the following subjects: (i.) English (including Literature and History); (ii.) Mathematics, Science; (iii.) Latin, Greek, French, German, Italian, Spanish, Gaelic; (iv.) Art, Music, Applied Science. Provided (*a*) the passes must include one from each of the groups ii. and iii; (*b*) unless they include three on the higher standard the Certificate must show either (1) passes in Latin (or Greek) and in Maths., or (2) a pass on the Higher Standard in Latin (or Greek) or in Maths., and that all the four passes are in subjects taken from groups (i.), (ii.) and (iii.).

II. Other Scottish certificates accepted as equivalent, including, normally, a pass in English.

III. Other certificates affording evidence of a satisfactory secondary education on lines above specified.

IV. Examination under the Entrance Board in 4 subjects selected from the following, including at least one from each group: (i.) as under Clause I.; (ii.) Maths., Physical Science; (iii.) as under Clause I., or other approved language. Proviso (*b*) applies, and candidates are ordinarily required to reach the higher standard in English.

XXIV

INTER-UNIVERSITY SCHOLARSHIPS AND GRANTS FOR ADVANCED STUDY AND RESEARCH

Under the heading " SCHOLARSHIPS, ETC.," will be found in the sections of the Yearbook relating to the several Universities information regarding the extent to which they provide for the promotion of advanced Study and Research by the offer of Scholarships, Fellowships, etc., to their own graduate members. In this Appendix are given particulars of some other aids.

Agriculture and Fisheries, Ministry of, p. 652.
American University and College, p 659.
Architecture, Engineering and Naval, p. 655.
Beit Memorial Fellowships, p. 649.
Blair Fellowships, p. 647.
Board of Education Funds, p. 646.
Bradford Chamber of Commerce, p. 656.
British Academy, p. 652.
British Association, p 652.
British Empire Exhibition, p. 657.
British School, Athens, p. 653.
,, Rome, p. 653.
Cancer Research Fund, p. 654.
Central Bureau Loan Fund, p. 658.
City of London Vacation Course, p 658.
Cotton-Growing Corporation's, p. 654.
Daughters of the Empire, Imperial Order, p. 657.
English-Speaking Union, p. 658.
Federations of University Women, p. 662.
Free passages to Australia and New Zealand, p. 658.
French University, p. 661.
Gilchrist Educational Trust, p. 650.
Govt. grants for scientific and industrial research, p. 662.
Grocers' Company, p. 655.
International Federations, p. 668.
Johnston Chemical Scholarship, p. 656.
Kahn Travelling Fellowships, p. 654.
Kitchener Scholarships, p. 657.
Lancs. County for students in industry, p. 647.
Marine Biological Association, p. 653.
Medical Research Council, p. 665.
Polish Studentship, p. 662.
Ramsay Memorial Fellowships, p. 653.
Research :
Colonies, p. 665.
Canada, Australia, and Africa, p. 665.
India, p. 667.
Royal Commission, 1851, p. 647.
Royal Society, p. 651.

Salters' Institute, p. 656.
Stapley Educational Trust, p. 651.
University and College Funds, p. 643.
Watson Professorship, p. 659.
Zoological Society, p. 653.

For *Rhodes Scholarships*, v. p. 210 ; for *Carnegie Trust* for the Univs. of Scotland, p. 261.

FUNDS ADMINISTERED BY UNIVERSITIES AND COLLEGES

BIRMINGHAM : *Bowen Scholarships in Chemistry* (3), *Metallurgy* (1), *and Engineering* (2), £95 each. Open to candidates who have spent 3 yrs. in a Univ., preferably Birmingham.

CAMBRIDGE : *Almeric Paget Studentship*, £150, for Polit. Sc., Economics, etc., open to graduates of any Univ., or those about to graduate. Election after examn. (English Essay and questions on Polit. Hist. and Econ.). Applications, with 3 testimonials, evidence as to graduation and signed statement of age and proposed course of study, receivable up to July. Student to come into residence at Corpus Christi Coll. for the academic year succeeding election.

F. W. Maitland Memorial Fund. Grants may be made to any person engaged in any research in the History of Law or of Legal Language or Institutions, or for delivery of lectures, publication of works, etc., connected with these subjects.

Whewell Scholarships in International Law, one of £100 and one of £50, open to all persons whether already members of the Univ. or not who are under 25, tenable for 2 yrs. in the Univ.

J. L. Walker Studentship in Pathological research, £300 p.a. for 3 yrs. Candidate need not necessarily be a member of the Univ. Awarded for 1924–27 to H. W. Florey, B.A. Ox., M.B. Adel.

Balfour Studentship in Biological research, especially in Animal Morphology, £300 p.a. for 3 yrs. ; student need not be a member of the Univ., but must study in it for at least 3 terms.

Hort Memorial Fund, £65 p.a., for grants to persons engaged in Biblical, Hellenistic, or Patristic research, or undertaking connected therewith.

Gordon Wigan Fund, £300 p.a., for scientific educn. or research.

Worts Fund for investigations in foreign countries respecting religion, laws, etc., or geographical discovery or antiquarian research therein.

Clare College Research Studentships, £125 p.a., not more than two at a time; graduate members of any Univ. may be elected, but preference to members of the College.

Emmanuel College Research Studentship. Value £150 p.a , tenable for 2 yrs. Open to a graduate or other qualified student, not less than 21 yrs. of age, from another Univ. beginning Research at Cambridge (v. p. 59). Applications should reach the Master not later than July 31, and should be supported by two certificates of character, brief account of career, with names of professors or teachers under whom applicant studied, precise statement of proposed course of research, and

any evidence of general ability and of special fitness for proposed research. A studentship of the same value is open to graduates of the College.

Rooms in the College are reserved for the Lionel de J. Harvard Memorial student nominated by the President of Harvard Univ.

Peterhouse Research Studentship (Abercrombie Smith), £150 p.a. for 2 yrs. Open to graduates of any British or Foreign Univ. intending to proceed to Ph.D. degree. Applications receivable by Tutor up to July. Awarded in 1925 to H. S. Pruthi.

Trinity College Research Studentship and Dominion and Colonial Exhibitions. A Studentship of value (dependent on the student's pecuniary circumstances) not exceeding £200 p.a., tenable during preparation for the Ph.D. degree in the Univ. of Cambridge. Open to men who have graduated or are otherwise qualified, provided that they have not commenced residence in the Univ. of Cambridge. Tenure is conditional on entry as Research student (minimum age, 21; v. p. 59) and upon diligence in the approved course. Applications with certificates of birth, graduation, and character, record of education, any evidence of aptitude for research, and full account of pecuniary circumstances, should reach the Senr. Tutor not later than July 25.

The *Exhibitions* for students residing in the Dominions and Colonies, annual value of £40, which may be increased by remission of College fees to £72 in cases of special need, are tenable for 2 yrs. and possibly for 3. Candidates must apply through the principal authority of the Univ. to which they belong. The Univ. authorities, if they think fit to forward an application, the candidate being in their opinion of marked ability and one of whom it may be confidently expected that he will profit by a further period of Univ. study, will send with it certificates of birth and character, record of scholastic career, etc.

Girton College Research Fellowships.—1. *Science.* £300 p.a. for 3 yrs. (renewable up to 6 yrs.) for research in Math, Physical and Nat. Sciences. 2. *Arts* (Pfeiffer Fellowship). Tenable for 3 yrs. (renewable up to 6 yrs.) for research in Language and Lit., Moral and Polit. Sc., or History. Open to women who are graduates or have taken Honours in a final degree examn. of any Univ., and members of the Girton College Roll. 3. *First Girton,* £300 p.a. Fellows in 1926: 1. Miss M. E. J. Chandler; 2. Miss H. M. Cam, M.A.; 3. Mrs. Arthur Strong, Litt.D. (T.C.D.). Jex-Blake Research Studentship, 1925–26, £120, open to women graduates of any Univ. and members of the Girton College Roll.

LEEDS: *Textile Research*—v. p. 88. LIVERPOOL: *Garrett International, Johnston Colonial, Lloyd's Register*—v. p. 99.

LONDON: *Dixon Fund for assisting Scientific Investigations.* Income available for grants—about £275. Applications receivable by the Principal between April 1 and May 15. Full information required as to nature and objects of research proposed, estimated amount required for it (detailed estimate to be given), any previous grant received for same object, what apparatus of permanent value will be needed. Names of two referees to be given. Instruments, specimens, etc., purchased out of grants to be returned to the Univ. Published results

of researches to refer to the Fund, and 25 copies to be supplied to the Univ. Preference given to applicants who are graduates of the Univ. or who undertake to work in a Dept. or School of the Univ. or other Instn. connected therewith.

Charles Graham Medical Research Fund. A Scholarship in Pathology, value not exceeding £400 p.a for 2 yrs., is awarded from time to time "to enable a young man to continue his pathological researches, and at the same time to secure his services to the School of Advanced Medical Studies connected with Univ. College Hospl. as a Teacher under the direction of the Prof. of Pathology." Applicants should give names of 3 referees, including a Teacher of the Univ. or College in which he has conducted his studies in Pathology. The Scholar is required to undertake teaching as well as research work. Scholar for 1924–26 —N. D. Ball, M.B.

Keddey Fletcher-Warr Studentships for Post-Graduate Research in Science. Value £200 for 3 yrs., renewable. Open to men and women of European descent who are graduates of some British Univ. or have qualified for such graduation, but preference is given, other things being equal, to a graduate of London of small or no private means. Awardable from time to time as notified in the Public Press.

Rogers Prize, £100, offered from time to time, for an Essay on a *Medical* or *Surgical* subject, named and appointed by the Univ. Open to all whose names appear on the Medical Register of the U.K.

Journalism Exhibitions. £100 p a. for 2 yrs. Five offered in 1925, including 3 open to candidates domiciled in the British Empire.

Lindley Studentship. £120 for work at the Institute of Historical Research. Preference to graduates of Univ. of London or candidates for a higher degree of the Univ. Awarded every third year. Last award in 1925.

Meyer Studentships in History and Geography of India. Endowment, £3000, tenable at Univ. College by graduates of Univs. of the British Empire studying for approved higher degrees in the Univ. of London.

Imperial College. Dominion Science Scholarships, 1924–25, £300 each, for graduate students (2) from the Univs. of each of the Dominions, Canada, Australia, New Zealand, S. Africa, and India.

London School of Economics. Research Studentship, open to graduates, £200. Metcalfe studentship, £60, open to any *woman* graduate of any Univ. of the United Kingdom.

Bedford College for Women. £150 for women graduate students of Sociology.

Westfield College (for women). Two research studentships open to graduates of any Univ. Value, £30 and £50 respectively, *plus* free board and lodging at the College (see p. 147). Applications, receivable in the Lent Term for studentship for the ensuing academic year, should be accompanied by 3 copies of 3 testimonials and names of 2 references.

College of Estate Management, 35 Lincoln's Inn Fields, W.C.2. Travelling scholarship (1926) for studying agricultural methods in Europe, £300 or less. Open to British-born graduates of a British Univ. under 30.

MANCHESTER: *Chemistry, Economics, Engineering, etc.*, v. p. 186.

OXFORD: *Philip Walker Studentship for Research in Pathology.* £200 p.a. for from 1 to 5 yrs., not restricted to members of the Univ., open to women as well as men.

Weldon Memorial Prize (endowment, £1000), awarded once in 3 years, for contribution in 6 preceding years to *Biometric Science.*

Somerville College. Mary Somerville Research Fellowship, £250 for 3 yrs.; last award 1925. *Lady Carlisle R.F*, £250 for 5 yrs.; last award 1919, extended for 3 yrs.

Lady Margaret Hall. Suseite Taylor Fellowship for independent study abroad.

St. Hilda's Hall. Research studentship, free board and lodging in college and £30 was offered for 1925–26.

WALES. *Aberystwyth University College.* Scholarship open to students of the Univ. of *Paris.*

ROYAL COLLEGE OF PHYSICIANS, London: *Streatfeild Scholarship*, £250 for 3 yrs. for research in Medicine or Surgery.

SCOTTISH UNIVS., v. p. 261.

GLASGOW: *Stevenson Citizenship Fund*, £20,000, established 1921 to provide for instruction, study, inquiry, and research, and thereby to emphasize the compatibility of civic or local with national patriotism and of both with full and free international co-operation. V. p. 285, Univ. Extension.

BELFAST: *Musgrave Research Studentships*, £200 each, open to British subjects, graduates of at least one year's standing in a Univ. of the British Empire, for research in *Pathology, Biology, Chemistry, Physics, Physiology.* Latest date for applications (10 copies and not more than 2 testimonials as to fitness for research)—July 1.

BRITISH COLUMBIA. Three scholarships of $1200, each tenable for 5 years at French Univs., were presented in 1924 by the Lieut.-Govr. of the Province.

MCGILL: v. p. 362. QUEEN'S: v. p. 390. TORONTO: v. p. 409.

FUNDS ADMINISTERED BY THE BOARD OF EDUCATION

Whitworth Scholarships. Six of £125 p.a. for 3 yrs. and two of £250 for 2 yrs.; open to British subjects under 21 and 26 years of age, who have been engaged in handicraft in a mech. engineering workshop for at least 30 months; awarded on result of examn. held in May. Applications receivable up to Feb. 1. Regulations with syllabus obtainable (2d.) from H.M. Stationery Office, Kingsway, London.

Science Scholarships tenable at Imperial College of Science. Examn. in April-May, open to British subjects. Number, value, and tenure vary. In 1925 twenty "Royal Scholarships" carrying maintenance £60-£80 p.a. and free tuition, and 11 free studentships were awarded. The examn. includes drawing and 5 alternative groups of other subjects:

(*a*) Engineering, (*b*) Physics, (*c*) Chemistry, (*d*) Biology, (*e*) Geology. The number of competitors and the number of awards in each group were: (*a*) 102, 10; (*b*) 42, 7; (*c*) 29, 9; (*d*) 1, 0; (*e*) 4, 1. Syllabus obtainable (6d.) from H.M. Stationery Office, Kingsway, London.

State Scholarships, v. p. 7.

ROBERT BLAIR FELLOWSHIPS IN APPLIED SCIENCE AND TECHNOLOGY

Two awarded annually for advanced study or research in the Dominions, U.S.A., or other foreign countries. £450 each. Open to British subjects at least 21 yrs. of age. Preference to students of Engineering Science, and to those who have completed a course of study in London Institutions or been identified with the London teaching service. Applications receivable by the Education Officer, County Hall, London, S.E.1, up to June 30.

SCHOLARSHIPS FOR ADULT STUDENTS ENGAGED IN INDUSTRY

The Education Committee of the Lancashire County Council in 1926 offer Scholarships (1 or 2) of value probably not less than £100 p.a. for encouraging non-vocational education among adult students fully engaged in industry. Age limits, 22 and 40. Evidence required of having devoted leisure time to study in a Univ. Tutorial class or in other ways. The Scholarships will be tenable for a year and renewable for a year or two more. The Scholar will ordinarily be required to devote his whole time to study in a Univ. or other approved institution. Entry forms obtainable from the Director of Educn., County Offices, Preston.

SCHOLARSHIPS AWARDED BY THE ROYAL COMMISSION FOR THE EXHIBITION OF 1851

I. *Science Research Scholarships offered to Overseas Universities*, to enable selected students who have already completed a full University course and given sufficient evidence of capacity for scientific investigations to devote themselves for 2 years to research work under conditions most likely to equip them for practical service in the scientific life of the Empire. Value, £250 p.a., with supplements in certain cases, tenable ordinarily for 2 yrs., renewable in exceptional cases for a third year, at any institution approved by the Commrs., but not, except in very special circumstances, in the Dominion in which the scholar has received his scientific education; open to British subjects of age (except in very special circumstances) under 26 yrs. At present not less than 8 (Canada 3, Australia 2, S. Africa, N.Z., and Irish Free State, 1 each) are offered annually; recommendations receivable (South Africa, Irish Free State, May 1) (Australia, N.Z., and Canada, June 1) from the following Univs.: Alb., B.C., Dal., McG., Manit., Queen's

(Ont.), Sask., Tor., and any of the Univs. of Australia, N Z., S. Africa, and the Irish Free State. A Scholar is not permitted to hold any position of emolument likely to conflict with the devotion of his whole time to the objects of the Scholarship, nor to accept any additional emoluments without the previous consent of the Commrs. Recipients in 1925: C. L. Huskins (Alberta), A. R. Fee (B.C), C. S. Hanes (Toronto), J. G. Wood (Adelaide), Y. M. Trikojus (Sydney), S. W. Watson (S.A.), R. S. Allan (N Z), J. J. Lennon (N.U.I.).

II. *Senior Studentships*, at present 5 in number, each of £400 p.a. with supplements in certain cases, for 2 yrs. or, in special cases, for longer; open to British subjects of age not (except in very special circumstances) more than 30 yrs, on recommendation, receivable up to May 1, by Profs. and Heads of Depts. through the executive authorities of such Institutions as may be invited by the Commrs. to nominate; tenable at any Institn. at home or abroad approved by the Commrs. The Student is not permitted to undertake any work likely to conflict with the devotion of his whole time to the objects of the studentship, but a limited amount of time may, with the approval of the Commrs., be spent in delivering an advanced course of lectures. He is not debarred from holding another position of emolument, but in such cases the Commrs. may modify the value of the studentship. Recipients in 1925: O M. B. Bulman (Geol.), Imp. Coll.; P. A M. Dirac (Math. Phys.), Cambridge; J. R. M'Haffie (Phys Chem), Univ. Coll, Lond.; H. W. B. Skinner (Phys.), Cambridge; D. L. Thomson (Bio-chem.), Aberdeen.

III. *Post-graduate Scholarship in Naval Architecture.* £250 p.a. for 2 yrs. for research work (for which no emolument will be receivable) in problems connected with design and construction of ships and their machinery and in the development of the shipbuilding industry at home and abroad. Open to British subjects under 30 who have passed with marked distinction through a course of study and practical training in N.A. at, and been nominated by, the R.N. College, Greenwich, Univ. of Glas. or Liv., or Armstrong College. The nominations are reported on by the Council of the Inst. N A. Recipient in 1925: W. Sprague (R.N.C. Greenwich).

IV. *Industrial Bursaries* of not more than £150 p.a. for 1, 2, or, exceptionally, 3 yrs. to cover the period between leaving College and obtaining sufficiently remunerative employment in Industry. Open to British subjects under 25 recommended from one of the Univs. of Gt. Britain, including the Imperial Coll. of Sc. and Tech., Heriot-Watt Coll, or Univ. Coll., Nottingham. A candidate must have been a *bona fide* student of Science for a term of 3 yrs., should give evidence of practical ability likely to lead to his advancement in industrial work, and show that he has obtained, or can within a reasonable period obtain, an industrial post to be approved by the Commrs., and is in need of pecuniary assistance to enable him to hold such a post. Twenty-one bursaries awarded in 1925.

V. *Rome Scholarship in Architecture*, £250 p a. for 2 or 3 yrs. Open to British subjects under 30 by competition conducted by the Faculty of Arch. of the School at Rome. A Student or Associate of the R.I.B.A.

who is placed next in order of merit to the winner will be recommended for the Jarvis Studentship of £250 p.a. for 2 years.

Rome Scholarships in Sculpture and in Decorative Painting, £250 p.a., tenable for 2 or 3 yrs. at the British School at Rome. Open to British subjects under 30 and 27 respectively by competition conducted by the Faculties concerned. The Faculty of *Engraving* administers a Scholp. of the same value. Recipients in 1925 : Archit., G. A Butling (L'pool) ; Sculpture, E. Jacot (Slade) ; Painting, E. I. Halliday (R.C.A.) ; Engraving, G H. Wedgewood (R.C.A.).

General. Women are eligible for all the Scholps. except III. and IV. Address of the Secy. to the Commrs., 1 Lowther Gardens, Exhibition Rd., London, S.W.7. Entries for the Rome Scholps. are receivable up to October 15 (Architecture), December 31 (Ptg., Sculp., and Engraving) by the Hon. General Secy., British School at Rome (same address).

BEIT MEMORIAL FELLOWSHIPS FOR MEDICAL RESEARCH

Founded in 1909 by Sir Otto Beit, K.C.M.G., in memory of his brother Alfred, " to promote the advancement by means of research of Medicine and the allied sciences in their relation to Medicine." Not more than six Junior Fellowships, each of £350 p.a. and usually tenable for 3 yrs., are awarded in July. An extension to a fourth year at £400 is sometimes granted. Open to graduates, men or women, in any Faculty of a British Univ. Notice of each election is published 3 mos. in advance. Applications are considered by an Advisory Board. Senior Fellowships of £600 p.a. tenable for 3 yrs. may also be awarded to persons who have already held Junior Fellowships. Special grants have been made from time to time for, or in aid of, particular objects of research. *Address* of Hon. Sec. to the Trust—Sir James K. Fowler, K.C.V.O., C.M.G., 35 Clarges St., Piccadilly, London, W.1.

BEIT FELLOWSHIPS FOR SCIENTIFIC RESEARCH

Founded by Sir Otto Beit, Bart., K.C.M.G., F.R.S., in 1913 for advancement of Science by means of research. At present £250 p.a. for 1 yr. with possible maximum extension of 1 yr. Tenable at Imperial College of Sc. and Tech., London, under supervision of a Prof. Fellows are required to devote their whole time to their research and to hold no appointment, paid or unpaid, without sanction of the Trustees. Open to men or women under 25, of European descent by both parents, who have taken a degree in any Univ. in the British Empire, or Diploma or Associateship of any College approved by the Trustees. Not open to holders of any other Scholarship or Fellowship. Elections, advertised 3 mos. in advance, are made annually in July. Applications should give full information as to qualifications, previous career, general character of proposed research, whether applicant has private means sufficient to carry on the research for 2 yrs. without aid of Fellowship,

names of not more than 3 referees including one on the staff of the Univ. or College or a College of the Univ. at which the degree, etc., was obtained. Testimonials should not be sent. Capacity for research, personal record, and importance of proposed research will be taken into consideration. Inquiries may be addressed to the Rector of the Imperial College. Fellows for 1925–26: W. E. Downey, L. A. Harvey, R. Quarendon, and R. Kingslake of R.C.Sc.

GILCHRIST EDUCATIONAL TRUST

Most of the Scholarships, etc., awarded by the Trust are for students of particular institutions. The following are not so restricted:

Scholarships in *Turkish* (1) and *Chinese* (1). £50 tenable at the School of Oriental Studies, London, or, in the case of a student of the School of 1 yr.'s standing, in an Oriental country. Open to candidates of European origin. Awarded on results of an examn. held in July in Grammar, History of the Language and its Relationships, 2 set books, unseen translation. Applications (in a prescribed form) receivable by the Director of the School up to May 15.

Several Scholarships of £30 tenable for 1 yr. in a *Training College for Women*. Open to graduates of a British or other recognized Univ.

Studentship tenable at the *British School at Rome*, £75 for 1 yr. At least 5 months to be spent in Rome. Open to men and women under 25 for a definite course of study for which Rome offers advantages and calculated to assist them in their profession. Applications with statement of previous training and proposed course, copies of not more than 3 recent testimonials based on personal acquaintance with candidate and his work, and any references, should reach the Secy. of the School, 19 Bloomsbury Sq., London, W.C.1, by July 31st.

Scholarship in *Economics and Home Science*. £50 tenable for 1 yr. at King's College for Women, London. Open to graduates of any approved Univ. or students who have successfully completed the 3 yrs.' course in these subjects. Evidence required of knowledge of not less than 2 of the following: Bact., Biol., Chem., Economics, Physics and Hygiene, Physiol., Psychol. Applications with account of educational career and not more than 3 recommendations should reach the Warden by May 20.

Studentship in *Geography*. £80 (in special cases, £100) for a definite course of advanced work extending in general over 9 mos., to be approved by the Trustees. No other work to be undertaken without written consent of the Trustees during the tenure of the Studentship. Open to Teachers of either sex who have had experience in teaching Geog. Applications, stating age, career, training in Geog., experience in teaching Geog., proposed work, time to be devoted to it, name of Headmaster, etc., to whom reference can be made, to reach Prof. Lyde, University College, Gower Street, London, W.C.1, by Feb. 1. The student is required to sign a declaration of intention to continue to be a teacher of Geog. for 2 yrs. after expiry of the Studentship.

Address of the Secy. to the Trustees: 1 Plowden Buildings, Temple, London, E.C.4.

SIR RICHARD STAPLEY EDUCATIONAL TRUST

Constituted in 1919, to administer a fund to assist educational progress by subsidizing necessitous students, promoting educational experiment and research, etc. In five years it has assisted between 600 and 700 students at universities. In 1924 the Trust published a report on the scholarship system with special reference to grants by Local Education Authorities entitled "The Poor Student and the Universities." Bursar, Percy Alden, M.A. *Address*—33 Bloomsbury Sq, W.C.1.

FUNDS ADMINISTERED BY THE ROYAL SOCIETY

Foulerton Research Fund. (*a*) Research Professorship, the stipend being £1400 p.a. *Duties*: To conduct, in a place approved by the President and Council of the R.S., such original researches in medicine or the contributory sciences, on lines approved of by the President and Council, as shall be calculated to promote the discovery of the causes of disease and the relief of human suffering. The Prof. shall devote the whole of his time to research. Tenable for 5 years in the first instance, the appointment being thereafter renewable for further periods of not more than 5 years at a time. (*b*) Research Studentship of £700 p.a., restricted to British subjects. *Duties*: To conduct researches in medicine or the contributory sciences, under the supervision and control of the Foulerton Committee, to whom the student will be required to report from time to time on the progress of his work. Tenable for 3 years and renewable from year to year, with a maximal total tenure of 6 years from the first award. Incumbents: (*a*) Prof. E. H. Starling, Prof A. V. Hill; (*b*) Dr. H. W. C. Vines.

Yarrow Research Professorships for research (whole-time) in Math., Physical, Chem., or Engineering Sciences. Value, £1400 p.a. Tenable at a University or other place to be approved by the President and Council of the Royal Society for a period of 5 years, the appointments being renewable for further successive periods of 5 years. Incumbents: Prof. A. Fowler, Prof G. I. Taylor, and Prof. O. W. Richardson.

Mackinnon and Moseley Research Studentships. Each of the value of £300 p.a. Tenable in the first instance for 2 years, but renewable in exceptional cases from year to year, total length of tenure not to exceed 5 years. *Mackinnon Studentship* for "furthering Nat. and Physical Sc., including Geol. and Astron., and . . . original research and investigation in Path." *Moseley Studentship* for "the furtherance of experimental research in Path., Physics, and Chem., or other branches of science, but not in Pure Maths., Astron., or any branch of science which aims merely at describing, cataloguing, or systematizing." Incumbents: M. G. L. Perkins and W. H. George.

Sorby Research Fund for original Scientific research. The income, about £600, is devoted to maintaining a Fellowship tenable ordinarily in the Univ. of Sheffield for 5 yrs., renewable for further periods. No permanent duties outside the research work may be undertaken. Appointments are made by a Committee composed of 4 persons ap-

pointed by the Council of the R.S. and 3 appointed by the authorities of the Univ. of Sheffield. The last appointment, 1921: N. K. Adam, M.A.

For all the above appointments applications are invited by public advertisement.

Scientific Relief Fund (income about £700 p.a.) to aid scientific men or their families requiring assistance.

Minor Funds: Tyndall Mining Research, income about £40 p.a., for a studentship; Gunning, about £35 p.a.; Joule, about £70 p.a.; Lawrence, about £170 p.a., for research in Diseases in man and animals.

Government Grants for Scientific Investigations. The conditions are notified annually in time for applications to be received by Jan. 1. Only British subjects are eligible. Appropriations in 1925 numbered 135, the amounts ranging between £8 and £845.

Medals. Copley, for Philosophical research (any country); Rumford (biennial), for useful discovery in Light or Heat, in any part of Europe; Royal (2), for advancement of Natural Knowledge; Davy, for Discovery in Chemistry in Europe or Anglo-America; Darwin (with grant of £100, biennial), for work in Darwinian field; Buchanan (with money grant, quinquennial), for service to Hygienic Science or Practice; Sylvester (with money grant, triennial), for Mathematical Research; Hughes (with money grant), for discovery in Physical Sciences, particularly Electricity and Magnetism. The 4 last are open to foreigners as well as to British subjects.

Address of the Society—Burlington House, Piccadilly, London, W.1.

BRITISH ACADEMY

Rose Mary Crawshay Prize for English Literature, £100. Open to women of all nationalities for historical or critical work, preference being given to work regarding Byron, Shelley, or Keats. *Address*—Prof. Sir I. Gollancz, King's College, Strand, London, W.C.2.

Cromer Greek Prize, £40. Open to British subjects under 26. Address—The Secretary of the British Academy, Burlington House, Piccadilly, London, W.1.

BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

Research Committees of the Association are constantly at work either conducting researches or preparing reports. Committees of the Sections concerned with different departments of Science consider *inter alia* the financing of proposed researches by such Research Committees. The Association administers for this purpose a fund, providing an income of about £350 annually, given by the late Sir James Caird of Dundee in 1912; any surplus from subscriptions in excess of administrative expenses are also devoted to research. *Address* of the Assocn.—Burlington House, Piccadilly, London, W.1.

BRITISH SCHOOL AT ROME STUDENTSHIPS

In addition to the scholarships mentioned above under (ii.) V. and (v.) a Studentship (Bernard Webb) worth not less than £250, tenable for one year, is offered for the encouragement of the historical and critical study of Architecture; open to students not over 32 years of age who have been members of the Archit. Assocn. for 4 years. The Pelham Studentship in Archæology (£100), awarded by the Univ. of Oxford, is open only to members of that Univ.

BRITISH SCHOOL AT ATHENS STUDENTSHIP

A studentship of value £100 tenable for one year is placed at the disposal of the Univs. of Oxford and Cambridge alternately. All students admitted to the School are expected to spend at least 3 months in Greece and to be engaged on some research work. They can, on payment of a small rent, reside in the School *Hostel*, and are admitted to use of the library. They also obtain special facilities for working in Museums and in travelling. Students of the British School at Rome are *ipso facto* admitted as students at Athens. *Address* of the Secy., 50 Bedford Sq., London, W.C.1.

MARINE BIOLOGICAL ASSOCIATION

A number of research tables at the Plymouth Laboratory are provided free of cost on the nomination of Governors (among others the Univs. of Oxford and Cambridge) and Founders of the Marine Biological Assocn. of the United Kingdom. The Ray Lankester Fund provides for the payment of £100 to an Investigator to be appointed from time to time by the trustees on condition of his spending at least 5 months in carrying on researches at the Laboratory. For full particulars application should be made to the Director of the Laboratory, Citadel Hill, Plymouth.

ZOOLOGICAL SOCIETY'S RESEARCH FELLOWSHIPS

One (Milner) in Comparative Pathology, value £800 p.a., awarded in conjunction with the London School of Hygiene and Trop. Med. Fellow in 1925, Dr. H. H. Scott of the London School. One of £350 (Aquarium Research) awarded in 1925 to Dr. F. P. Stowell of the Univ. of Liverpool.

RAMSAY MEMORIAL FELLOWSHIPS

The Trustees (Chairman, Sir Hugh Bell, Bt.; Secy., Dr. Walter W. Seton, University College, Gower St., London, W.C.) award from time to time 3 Fellowships, value £300 a yr. for 2 yrs., for Chemical research. They can be held in any Univ. or other place in the U.K. possessed of the requisite facilities for research; also in exceptional circumstances in other parts of the British Empire, and, by special permission of the Trustees, elsewhere. One is limited to candidates

nominated by the Univ. and the Royal Technical College, Glasgow. Fellowships are also provided in connexion with the undermentioned Dominion and Foreign countries. The value is normally £300 a year, but some of the fellowships are of greater value. Fellows for 1925–26: British—G. A Elliott, B Sc.; H. R. Ing, M A., D.Phil.; S. W. Saunders, B.Sc., Ph.D , T. C. Mitchell, B.Sc. (Glasgow). Canadian—D. M. Morrison, M.Sc., Ph.D Danish—K. J. Pedersen. Dutch—Dr. W. G. Burgers. French—M. Marcel Mathieu. Greek—Dr. N. Oeconomopoulos. Japanese—Dr. Takagi. Norwegian—Mr. L. Lindemann. Swedish—Mr. E. G. Rudberg, Phil.Lic.

ALBERT KAHN TRAVELLING FELLOWSHIPS

Founded by M. Albert Kahn of Paris "to enable men of proved intellectual attainments to enjoy during one yr. or more sufficient leisure and freedom from all professional pursuits or pre-occupations to enter into personal contact with men and countries they might otherwise never have known; to issue from the world of books and their narrow sphere of habitual interests into the broader world of various civilizations, and all such human interests, struggles, and endeavours as go to the making of general civilization." Value £660 (namely, £600 for travelling expenses and £60 for books and souvenirs), temporarily increased to £1000. Open to British subjects, men or women, who have graduated, or qualified for graduation, at a Univ. in the U.K. No age limit is imposed, but preference will probably be given, other things being equal, to persons between 25 and 35. Elections are made not later than May 31 each yr. on nominations made by any of the Vice-Chancellors of the Univs. in the U.K., or the President of the Royal Society, or the President of the British Academy. *Address* of the Secy. to the Trustees (F. J. Port, LL.B.); University of London, South Kensington, S.W.7. Fellow for 1924–25: B. Ifor Evans, M.A. (Lond.), nominated by the V.-C. of the Univ. of Manchester.

EMPIRE COTTON GROWING CORPORATION'S RESEARCH STUDENTSHIPS

In 1925 fifteen were awarded to provide opportunity to men of British nationality, either for additional training in research methods in, or for advanced study of, plant physiology, genetics, mycology, entomology, etc. Value £250 each, with additional allowances for books and travelling expenses. A number of studentships for graduates will be offered in 1926.

CANCER AND OTHER DISEASES

The *Imperial Cancer Research Fund* (capital £131,000), which is under the direction of the R.C.P. London and the R.C.S. England, has research laboratories and publishes reports of researches. Lord Atholstan has promised the sum of £20,000 in 10 instalments for

special researches to be carried out by it. An anonymous donor has founded an "Alice Memorial Fellowship" for Cancer Research amounting to £500 per annum, under the auspices of the Fund *Address*—8-11 Queen Square, London, W C.1.

Lord Atholstan has also offered a prize of $100,000 to the graduate or student of any recognized Univ. who, within 5 years from the date of his offer (1921), is the first to discover a medicinal treatment for the effective cure of cancer. The decision to be left to the R.C.P. London and the R.C.S. England.

The British Empire Cancer Campaign was founded in May 1923 to co-ordinate and support research on cancer throughout the Empire. The governing body includes representatives from the Imperial Cancer Research Fund and from each of the principal hospitals with cancer research departments. Chairman, Viscount Cave, G.C.M.G. The Scientific and Advisory Committee of the Campaign is set up jointly with the Royal Society and the Medical Research Council of the Privy Council and the Campaign, and the Radiology Committee of the Medical Research Council, augmented by representatives of the British Empire Cancer Campaign, acts jointly for both bodies. *Address*—Sir Richard Garton, G.B.E., Hon. Secy., 19 Berkeley St., London, W.1.

A *Yorkshire Cancer Campaign* aims at founding a Research Institute in alliance with Leeds Univ. See also pp. 166, 180, 266

GROCERS' COMPANY'S SCHOLARSHIPS

Three, £300 each, for 1 yr., renewable for 1 or 2 yrs., for inquiry into Causation of Prevalent Disease or as to means of Prevention of Premature Death. Cost of apparatus, etc., will be defrayed up to £300 in any one year. No other scholarship to be held or remunerative employment undertaken without sanction. Open to British subjects under 35. Applications in prescribed form receivable before April 1 by the Clerk, Grocers' Hall, Princes Street, London, E.C.2. Held in 1925 by Mrs. S. D. Thompson, M.B. at Univ. of Liverpool; Eric Holmes, B.A., B.Ch., Cambridge School of Biochemistry; J. Mills, M.B., Pathological Laboratory, Cambridge.

ENGINEERING AND NAVAL ARCHITECTURE

[See also (ii.) and (iii.) III.]

THE INSTITUTION OF NAVAL ARCHITECTS, 5 Adelphi Terrace, London, W.C.2, offer for 1926 scholarships tenable 4 years at Glasgow Univ., 3 years at Armstrong College, Liverpool Univ., R.N. College, and City and Guilds (Engineering) College, London. In Naval Architecture, one of the value of £150 p.a.; in Marine Engineering, one of value £100 p.a. Open to British apprentices or students. Also one in Marine Engineering, of the value of £75 p.a., open to Public School or Secondary School boys under 19 (British subjects) who have not begun their apprenticeship. Two Post-graduation Scholarships in Naval Architecture; candidates to be nominated by above Univs., each for two years, one

of £250 p.a. and the other (a part-time scholarship in N.A or Marine Engineering) £150 p.a.

NORTON AND GREGORY LD., 1 and 2 Castle Lane, Westminster, London, S.W.1, offer scholarships in Engineering, one of £100 p.a. and one of £50 p.a., tenable for 3 years at any Univ. in the U.K. or British Dominions. Open to candidates domiciled in U.K. aged 17-19. Applications receivable up to Jan. 30.

The BRITISH ELECTRICAL AND ALLIED MANUFACTURERS' ASSOCN., 36 Kingsway, London, W.C.2, granted in 1925 14 scholarships in Engineering of £100 *plus* college fees tenable at Univs. and Univ. Colleges in Great Britain. Open to apprentices or students of British birth.

The INSTITUTION OF MINING ENGINEERS award a "Mayor and Coulson" travelling graduate scholarship of £250.

JOHNSTON CHEMICAL SCHOLARSHIP AND PRIZE

Value £150 for 1 yr., awarded on the results of an examn. in Chem. with Crystallography or Mineralogy, and tenable at Armstrong College, involving at least 24 hours per week throughout the session. Open to B.Sc. of any British Univ. of not more than 3 yrs.' standing from graduation. Evidence of previous training and ability to conduct an original Chem. investigation is required.

SALTERS' INSTITUTE OF INDUSTRIAL CHEMISTRY

Fellowships, usually of the annual value of £250 to £300, are offered to chemists of post-graduate standing to enable them to undergo a special further training for careers in chemical industry. They are tenable either in this country or abroad, and the course of training to be followed is decided in each case to suit the individual requirements of the Fellow. Applications are received in June, the exact date being advertised. Further particulars may be had from the Director of the Institute, Salters' Hall, St. Swithin's Lane, London, E.C.4.

BRADFORD CHAMBER OF COMMERCE FOREIGN LANGUAGES SCHOLARSHIPS

Endowment, £40,000, established Dec. 1924, for making grants for maintenance of British-born students (preferably Yorkshiremen) in foreign countries with the view of promoting commerce between England and such foreign countries. Grants are for 6 months' residence, and may be renewed up to 18 months. Holders will be expected to be affiliated to business firms of good standing in the countries they go to. Preference to persons intending to study Spanish or Russian. Application forms (price 1s.) obtainable from the Secretary to the Chamber.

KITCHENER SCHOLARSHIPS

For Study and Training. Maximum value in any year £200 for maintenance *plus* tuition fees and, in case of study abroad, approved travelling expenses. Maximum period, 6 yrs.; minimum age, 17. Open to sons of officers and men of H.M. Forces—as a rule, sons of deceased officers and men. Value and length of tenure will in each case be such as to enable successful candidates to undertake a complete course of advanced education at any Univ. or other approved institution. Scholarships are offered annually in Jan., conditions being advertised about the middle of the month. The number awarded in 1925 was 80.

Application for full information should be made to the Secy., Lord Kitchener National Memorial Fund, 34 Norfolk St., Strand, London, W.C.2.

IMPERIAL ORDER DAUGHTERS OF THE EMPIRE SCHOLARSHIPS

Undergraduate, 36, held in Canadian Univs by sons and daughters of deceased or totally disabled soldiers and sailors. Graduate, 5, held at Oxford, Cambridge, and London in 1924–25. To be increased to 9, one for each Province, in 1927–28. *Address* of the Order—Dominion Bank Chambers, 238 Bloor Street East, Toronto.

BRITISH EMPIRE EXHIBITION (1924–25) SCHOLARSHIPS

The Fellowship of the British Empire Exhibition is an unincorporated body formed primarily for the purpose of insuring the full success of the Exhibition. Its revenues were derived almost entirely from a commission allowed by the B.E.E. Association on its sales of tickets for the Exhibition. Owing chiefly to the fact that its organization was carried on by unpaid volunteer workers, it was able to save from its revenue a sum of nearly £10,000 for a Scholarship Fund. This sum has been largely increased by grants-in-aid from various sources. The *Scholarship Trust* of the Fellowship decided to devote a proportion of the Fund to granting sums to the Overseas Dominions to help to send research scholars to the Mother Country. One of these Scholarships has been already taken up, and Canada has sent a research student in colloidal chemistry from McGill Univ. to the Univ. of London. Grants were also made from the Scholarship Fund for various educational purposes. Thus a sum of £500 was devoted to the Imperial College of Tropical Agriculture, West Indies, and was used to equip its laboratories with microscopes. The bulk of the Fund, however, is being used to send young people from the Home Country for education and settlement in the Overseas Dominions. In 1925 fifty lads were sent to Australian and Canadian Agricultural Colleges, where they will receive a course of training and subsequently be placed as apprentices with farmers. In

1926 the Trust will continue this work. It is also arranging to send a number of young women from the Home Country to be trained as school teachers in Western Canada, under conditions which will ensure their employment on completion of the training.

CENTRAL BUREAU LOAN FUND

The CENTRAL EMPLOYMENT BUREAU FOR WOMEN AND STUDENTS' CAREERS ASSOCIATION (incorporated), 54 Russell Square, London, W.C.1, has established a fund to help educated women who must be self-supporting, and are without the means of paying for training or for adequate preparation. For University Education, Research Work, or technical Training of any kind loans are available. Amount of Fund, £5000.

FREE PASSAGES TO AUSTRALIA AND NEW ZEALAND AND BACK

The six chief passenger lines serving Australia and New Zealand place eight first-class return tickets, annually, at the disposal of the Universities Bureau for graduates of the Univs. of Great Britain and Ireland who wish to visit these Dominions (*a*) for the purpose of holding temporary teaching-posts, or (*b*) for the purpose of prosecuting research work into problems connected with their development and resources. Application must be made to the Bureau by the authorities of the graduate's Univ.

Regarding free passages *from* Australia and N.Z. and back, see pp. 423, 454.

CITY OF LONDON VACATION COURSE SCHOLARSHIP

£300 to enable a teacher, actively engaged in teaching work in any part of Great Britain or Ireland, to proceed to America for some months in order to conduct research work in the field of education of children between 6 and 14. Address the Secy., City of London Vacation Course, Montague House, Russell Sq., W.C.1. Donor (1926), Irving T. Bush.

ENGLISH-SPEAKING UNION'S SCHOLARSHIPS

For British Women Teachers. *Page Travelling Scholarship*, £50 and complete hospitality in America during the summer vacation. *Chautauqua Scholarships* (2), for the summer school, July and August, in the State of New York; covering cost of lectures and complete hospitality for 6 weeks. Applications receivable up to March 31 by the E.S.U., 1 Charing Cross, London, S.W.

For young men to study business methods, *Prof. Harold Whitehead Scholarship* (Boston Univ.), £80, return passage, and remunerative work.

SIR GEORGE WATSON CHAIR OF AMERICAN HISTORY, LITERATURE AND INSTITUTIONS

Founded by Sir W. G. Watson, Bt., who presented £20,000 for the purpose on the occasion of the return of the Prince of Wales from his American tour. Each yr.'s course will usually comprise about 6 lectures by an eminent authority, American or British. The courses will be given in the various British Univs. in rotation. A general Inaugural Lecture was given in London by the late Viscount Bryce, O.M., in July 1921. This has been published in England by the Cambridge Univ. Press, together with the lectures of 1922 by Dr. A. T. Hadley (ex-President of Yale) and of 1923 by Dr. Nicholas Murray Butler (President of Columbia). In 1924 Prof. A. F. Pollard of University College, London, lectured on Factors in American History. The Lecturer for 1925 was Sir Robert Falconer, President of Toronto University, Canada, who took as his subject, "The United States as a Neighbour." The foundation is administered by the Sulgrave Manor Board, 1 Central Buildings, Westminster, London, S.W.1.

AMERICAN UNIVERSITY AND COLLEGE SCHOLARSHIPS FOR BRITISH STUDENTS

Commonwealth Fund Fellowships, established 1925. Twenty to be awarded annually. Value about £600 each per annum, tenable ordinarily for two years in one of the 26 institutions belonging to the Association of American Universities (see list in Appendix XXV.). Candidates (who must be unmarried and not over 30 years of age) are to be nominated by universities in Great Britain and Ireland, and the final selections will be made by a Committee of Award, of which H.R.H. the Prince of Wales is Honorary Chairman, and Sir Walter R. Buchanan-Riddell, Principal of Hertford College, Oxford, Chairman. The office of the Committee is at 50 Russell Square, London, W.C.1. Among other conditions of tenure is a requirement that at least 3 months must be spent in travel in the U.S.A. at the close of the first year of study.

Rose Sidgwick Memorial Fellowship. Established by Americans in memory of a member of the British Educational Mission which visited the U.S.A. in 1918, in recognition of her service in the cause of Anglo-American friendship. Administered by the American Assocn. of University Women. Value $1000 (providing tuition and residence during term for 1 yr., and about $400 in cash towards travelling expenses and incidental fees); tenable at any approved College or Univ. in the U.S.A. English friends of Rose Sidgwick have raised a fund to supplement the Fellowship by providing for outfit, etc., in case of need up to £30. Open to British women (preferably from 25 to 35 years of age) of graduate standing. Applications (with 8 copies of not more than 2 recent testimonials and 2 references) giving date of birth and information as to qualifications, experience, work proposed to be done during tenure of Fellowship, and any experience of speaking in

public, should be sent before February 1 to the Secy., British Federation of Univ. Women, 92 Victoria St., London, S.W.1. The award is made on the nomination of the Committee on International Relations of the Federation. Awarded for 1925–26 to Miss Te Water, M.B., from S. Africa.

Choate Memorial Fellowship, $1850, of the Harvard Club of New York City, 27 West 44th Street. Awarded on nomination and recommendation of the Vice-Chancellor of Cambridge to a British subject coming from Camb. to study in any department of Harvard Univ.

Clarence Graff Fellowship, £250 *plus* tuition fees, open to unmarried men, graduates of Oxford or Cambridge, for advanced study at an institution of learning in the American Middle West (between the Allegheny and Rocky Mountains). Preference to candidates who have had a liberal university training and whose interests are humanitarian rather than commercial or narrowly scientific, the object being to foster a better understanding in Great Britain of social conditions and currents of opinion in the U.S.A. and to establish friendly contacts. Secretary: R. H. Simpson, 50 Russell Square, W.C.1.

Henry P. Davison scholarships (6), $1500 *plus* tuition fees (about £50) tenable at Harvard, Yale, and Princeton, for one year. Open to Oxford and Cambridge undergraduates and B.A., unmarried, with preference to those in their second year intending to read for honours and to resume residence in their own (Oxford or Cambridge) Univ. Scholars are chosen on basis of character, scholarship, and fitness to represent the Univ. No examn. Secretaries: A. L. Goodhart, Corpus Christi College, Cambridge; A. C. Jacobs, Oriel College, Oxford.

Laura Spelman Rockefeller Memorial Fellowships, $1800 each *plus* travelling allowance. Awarded only to unusually able, mature graduate students in the Social Sciences (economics, sociology, and political science, principally; also history, psychology, and anthropology, etc.). Fellows are expected to be candidates for a degree in the institution in the U.S.A. in which they are studying whenever this is at all feasible. 8 fellowships were awarded in 1924 to students in Great Britain and Ireland for work at Harvard (3), Yale, Chicago, Washington, N. Carolina, and New York School of Social Studies. Representative for Great Britain and Ireland: J. R. M. Butler, Trinity College, Cambridge.

Bryn Mawr College. Eight graduate scholarships for European women students, of which in general three are awarded to British women. Value $720 (covering fees for tuition and, during term only, board and residence during one academic year). Applications receivable up to May 1.

Smith College, Northampton, Mass.—Six fellowships, $500 and tuition, open to women graduates either of Smith College or of other Colleges of equal rank.

Union Theological Seminary, N.Y. City. Fellowship in Theol., $1200 for 1926–27, for advanced graduate work. Open to theol. students of high grade of England and Wales of any ecclesiastical communion who have completed a regular theol. course. Applications

receivable by the Rev. the Principal, Mansfield College, Oxford, or Prof G. S. Duncan, St Mary's College, St. Andrews. Latest date, May 31

PRINCETON. Jane Eliza Procter Visiting Fellowships. Three of $2500 each annually, for 2 British scholars (to be nominated by the Univs. of Oxford and Cambridge) and 1 French, tenable for one year, with possibility of renewal, in Princeton Graduate College, for independent advanced study and investigation in purely liberal arts and sciences, exclusive of professional, technical, or commercial subjects; open only to unmarried young men holding a degree in distinctively liberal studies and of reasonably good health, high character, and exceptional scholarly power. Also ten Charlotte Elizabeth Procter Fellowships of $1200 each annually are open to duly qualified graduates of American, British, and other univs. in the field of distinctively liberal studies. Applications for an ensuing academic year should be made directly to the Dean of the Graduate School, Princeton, New Jersey, U.S.A., before March 1.

MICHIGAN. *The Riggs Foundation* under the auspices of the English Speaking Union. Fellowships for British graduates. $1200 each, tenable in the Univ. of Michigan, one year. Preference to students of History and Economics. The Secretary to the American University Union, 50 Russell Sq., London, W.C.1, is Secretary to the Selection Committee.

Many American Universities having "Graduate Colleges" offer Research Scholarships and Fellowships of from $300 to $2000 p.a. which are ordinarily open to Foreign as well as to American students. Nearly all the American Univs. other than State Univs., and a few of the latter, offer each year fellowships of from $200 to $800 which are open to Foreign students. Most American Univs. close their scholarship lists about March 1. The Institute of International Education (522 Fifth Avenue, New York) published in 1923 lists of fellowships, etc., offered to Americans for study abroad and *vice versa*. These may be seen at the American University Union, 50 Russell Sq., London, W.C.1.

A tentative plan for the establishment of fellowships for British subjects in American Univs. which was formulated by President Frank Aydelotte of Swarthmore College, American Secretary of the Rhodes Scholarship Trust, in 1922, has, in the main, been realized in the Laura Spelman Rockefeller and Commonwealth Fund Fellowships.

FRENCH UNIVERSITY SCHOLARSHIPS

A scholarship of 8000 fr., open to Australians for graduate or post-graduate work. Office National des Universités et Écoles Françaises, 96 Bd. Raspail, Paris (6e).

"La Bienvenue Française," 33, Rue du Faubourg Saint-Honoré, founded in 1923, offers every scholastic year hospitality to one student of science of each of the following nationalities: French, British, Belgian, Italian, Czecho-Slovakian.

POLISH STUDENTSHIP

The Polish Minister of Education offered for 1925–26 a stipend to cover expenses of living in Poland and a grant for cost of travel of a British student.

INTERNATIONAL FELLOWSHIPS, ETC., OF FEDERATIONS OF UNIVERSITY WOMEN

The American Assocn. of University Women offers $1200 to enable a member of the International Federation of University Women to carry on a year's research in some country other than her own during 1926–27. Applications receivable up to January 15, 1926, through the Secretaries of the National Federations. Further information obtainable from the International Federation, 92 Victoria St., London, S.W.1. Awarded in 1925 to Dr. Ethel M'Lennan, of the Univ. of Melbourne. *Address*—Prof. Agnes L. Rogers, Bryn Mawr College, Bryn Mawr, Pa., U.S.A.

The Canadian Federation has founded a Scholarship enabling a woman graduate of a Canadian Univ. to study at a Univ. of any other country represented in the International Federation.

The Georgina Sweet *research fellowships* (2), 1927, are for women from non-Australian Univs., in Biology, Nat. Philos., Geology, Economics, Anthropology, or Colonial History. At least 6 months' work must be done in Australia. Applications receivable by the Secy. of the Federation of Univ. Women to which candidate belongs not later than May 1926.

The Italian Fellowship open to all members of the International Federation of Univ. Women provides 6000 lire for four to six months' research in Italy on "Storia dell Arte" or "Archeologia" during the first part of 1926.

GOVERNMENT GRANTS FOR SCIENTIFIC AND INDUSTRIAL RESEARCH

The total expenditure estimated for 1925–26 of the DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH is £616,018. This included headquarters administration, £36,054; Geological Survey and Museum of Practical Geology, £66,644; and various research programmes, £355,184.

Grants to individual research workers (£40,000) are made on recommendations by individual professors. During 1924–25 the Department made 258 allowances to students for training in research in Univs. and Colleges; 47 grants to research workers to undertake independent research or act as scientific assistants to investigators of standing; 18 grants to scientific workers to enable them to employ laboratory or clerical assistants or to purchase equipment. The system is intended to supplement and not in any way to supersede existing provision,

national or local, for post-graduate research. Particulars of these grants will be found in the pamphlet, *Notes on the Grants to Research Workers and Students*, price 2d, from any bookseller. It is in contemplation to issue early in 1926 a revised edition of these Notes.

Up to August 1925 the number of Industrial Research Associations recognized by the Department and in operation was 21. Particulars of them and of Research Stations under the Department are given in Appendix XXVII.

Developments in the organization of research in the Overseas Dominions are described in an Appendix to the Annual Report of the Department for 1924–25

The IMPERIAL INSTITUTE, with which the *Imperial Mineral Resources Bureau* was amalgamated in 1925, has a Scientific and Industrial Research Department and Technical Information Bureau. The Institute is under the management of the Department of Overseas Trade. Further particulars are given in Appendix XXVII.

MINISTRY OF AGRICULTURE AND FISHERIES AND DEVELOPMENT COMMISSION

GRANTS FOR AGRICULTURAL (AND VETERINARY) RESEARCH. For some few years past the Ministry has awarded annually Research Scholarships (£200 p.a. for 3 yrs.) to assist promising students—usually honours graduates in Science of a British Univ.—to qualify as research workers. In 1925, 5 were awarded to students of Aberystwyth, Bangor, Bristol, Liverpool, and Manchester. In 1921 the Ministry instituted Travelling Research Scholarships for members of staffs of aided research institutions. In 1925, 4 were awarded to members of the staffs at Bristol, Oxford, and the Rothamsted and East Malling Research Stns.

The Ministry has allocated (with a view to the concentration at one institution or at institutions working in combination, of the scientific work in each of certain definite groups of subjects) grants-in-aid for the maintenance of research departments of institutions as follows: *Agr. Engineering*—Oxford Univ.; *Agr. Parasitology*—London School of Hygiene and Tropical Medicine; *Fruit-growing*—Bristol Univ., Cambridge Univ., East Malling Research Station (near Maidstone); *Animal Nutrition*—Cambridge Univ.; *Plant-breeding*—Cambridge Univ., University College of Wales, Aberystwyth; *Plant Physiology*—Imperial College of Science; *Economics of Agr.*—Oxford Univ.; *Dairying*—Univ. College, Reading; *Plant Nutrition and Soil Problems and Plant Pathology*—Rothamsted Experimental Station, Harpenden, Herts; *Crop Improvement and Seed and Potato Testing*—Nat. Inst. of Agr. Botany, Cambridge; *Animal Pathology*—Royal Vet. College, Camden Town, London, N.W.1, Cambridge Univ., and the Ministry's Vet. Laboratory, Addlestone, Weybridge.

In addition to the above, grants are made for research in Animal-breeding (poultry and rabbits) to Cambridge, Bee-culture to Rothamsted

Exptl. Station, Glasshouse culture to Waltham Cross Research Station, Silver-leaf disease research to Camb. Univ., Testing new varieties of fruit trees to Royal Hortic. Soc.

A grant has also been made to enable the Agr. Depts of the following institutions to supplement in cases calling for special scientific knowledge and training the advice usually given by members of the county Agr. Staffs: Armstrong Coll., Bristol, Cambridge, Leeds and Manchester Univs., Aberystwyth, Bangor, Cardiff, and Reading Univ. Colleges, Midland, S. Eastern (Wye), Harper-Adams (Newport), Midland (Sutton-Bonnington, Notts.), and Seale-Hayne (Newton-Abbot) Agr. Colleges. Grant for 1924-25, £40,000.

Special research grants amounting in the aggregate to £2380 for work in 1925–26 are being made to Cambridge, Leeds, and Bristol Univs., the Imperial College of Science, East Malling Research Station, S. Eastern Agr. (Wye), and Bangor Colleges.

In a leaflet (197) issued by the Ministry in Sept. 1920 (amended Sept. 1924) information is given regarding some of the above-mentioned grants and generally regarding Agr. Education and Research in England and Wales. V. also Appendix XXVII.

FISHERY RESEARCH. Researches likely to lead to results bearing on the development and improvement of fisheries are eligible for advances from the Development Fund as follows: 1. *Grants-in-aid of the general work of Independent Marine Institutions*, to aid fundamental researches forming part of the Institution's continuous programme of work. Departments of a Univ. engaged principally upon education which may be eligible for grants administered by the Univ. Grants Committee are not as a rule eligible for these. Applications in prescribed form are receivable by H.M. Treasury up to Sept. 30 for grants to be made in the ensuing financial year. They will be referred to the Ministry for report, and may involve informal inspections by representatives of that Dept. and of the Development Commission.

2. *Grants for Specific Researches.* (*a*) Directed to definite economic ends of use to the Fishing Industry; or (*b*) "Free" researches. Communications with a view to grants under head (*a*) should be addressed to the Fisheries Secretary. As regards grants to Institutions under head (*b*), the work may be carried on either by members of the staff or by workers temporarily attached to the Instn. or by research students working under the guidance of members of the staff, whose qualifications are approved and who are definitely recommended by the Head of the Institn. The Development Commrs. will also be prepared to consider applications for additional grants for temporary assistants and for apparatus, etc., to enable members of the staff to prosecute special lines of inquiry. Applications should be addressed to H.M. Treasury and will be dealt with in the same way as those under par. 1. In special cases applications for grants under either (*a*) or (*b*) in respect of researches by workers not attached to any recognized Instn. may be considered.

The amount provided in the Ministry's estimates for 1925–26 for grants under 2 (*a*) was £875.

Detailed information regarding the promotion of Agricultural education and research is contained in the annual reports of the DEVELOPMENT COMMISSIONERS (6A Dean's Yard, Westminster, London, S.W.1), obtainable from H M. Stationery Office.

MEDICAL RESEARCH COUNCIL

The Medical Research Council (15 York Buildings, Adelphi, London, W.C.2), formerly the Medical Research Committee established in 1914 under the Nat. Health Insurance Act, are now under the direction of a Committee of the Privy Council. They apply money voted by Parliament or received from private sources for the furtherance of medical research. Grants are made to qualified investigators in respect of approved programmes of research work to be carried out in Univs., Medical Schools, Hospitals, or other institutions. Names of recipients and accounts of the schemes of research supported are given in the Council's Annual Reports published by H.M. Stationery Office. Grants may be either personal, *i.e.* to provide remuneration in respect of whole-time or part-time work devoted to particular subjects approved by the Council, or for expenses necessarily incurred in the prosecution of the approved researches. Rockefeller Medical Fellowships tenable in the U.S.A. are also provided for graduates in medicine or related branches of science : for 1925–26 seven were awarded.

RESEARCH IN THE COLONIES

A Committee, appointed in Nov. 1920 by Lord Milner, then Secy. of State for the Colonies, to consider what steps could be taken to secure the assistance of the Univs. in carrying out research work for the Colonies and Protectorates, reported (Cmd. 1472, price 2d) in April 1921 that there should be such substantial augmentation of scientific workers in our Univs. as will not only foster research among students but also enlarge the corps of scientific experts to whom the Empire may turn for help in the hour of need. They drew attention to the large number of appointments which the Colonial scientific departments offer to men adequately equipped for them (Agric. 254, Forestry 106, Analytical Chemists 18, Vet. 77, Geol. 20, Med. 649) and recommended that for appointments requiring research qualifications selection should not be by competitive examination but based on recommendations by Universities or Colleges.

The Imperial College of Tropical Agriculture is described on p. 417.

At SINGAPORE is an Epidemiological Information Bureau established by the League of Nations with the support of the Rockefeller Foundation. It receives an annual subsidy from the Govt. of the Straits Settlement. *Address*—League of Nations, Health Section, Eastern Bureau, 67 Robinson Rd., Singapore.

RESEARCH IN CANADA, AUSTRALASIA, AND AFRICA

CANADA. An Honorary Advisory Council for Scientific and Industrial Research was constituted in Nov. 1916 under a sub-committee of the Privy Council of Canada which had been formed in the same year

to have charge of all measures to foster the scientific development of Canadian Industries. It consists of 15 members chosen from the Univs., the Engineering Profession and the Industries of the Dominion. With the help of Associate Committees comprising over 140 of the leaders of science and industry it has undertaken or promoted important researches in regard to the utilization of peat and of low-grade lignites, methods of re-forestation, Canadian iron ores, action of alkaline waters on concrete, rust in wheat, and some 60 other subjects. By the foundation of *Bursaries*, *Fellowships*, and *Studentships* tenable in Canadian Univs. provision is made each year for the training of young graduates in the methods of scientific investigation. The expenditure of the Council in 1924–25 was $121,000, including $40,000 for fellowships, studentships, and bursaries for training research workers, and $49,000 for assisted researches.

A *Catalogue of Scientific Periodicals in Canadian Libraries*, prepared by G. R Lomer, the Librarian of McGill Univ., and Margaret Mackay, Asst. Secy., Canadian Bureau of the International Catalogue of Scientific Literature, was published in 1924 by McGill Univ. in co-operation with the Council.

The *Banting Medical Research Foundation* was established in April 1924 to raise funds for the support of the Banting and Best Chair of Medical Research at Toronto and for otherwise aiding medical research workers.

The Province of Ontario provides annually five scholarships of $1200, open to local graduates, for research study in France with a view to subsequent commercial, industrial, scientific, or professional work in the Province.

AUSTRALIA. The *National Research Council* was founded in 1921 to represent Australia in the International Research Council, and also serves as a national academy of pure and applied science (all branches).

The *Commonwealth Institute of Science and Industry* (Sir George H. Knibbs, C.M.G., Director, 314 Albert Street, East Melbourne) was constituted by Act of Parliament in 1921, a temporary organization having been active since 1916. It is concerned with the application of science to the Australian primary and secondary industries, and works in co-operation with the State departments, the Universities, and other institutions. Its own laboratories are as yet incompletely developed and staffed. It carries on a public information bureau, and was largely instrumental in the formation of an Australian Engineering Standards Association. It has published numerous bulletins on animal and vegetable pests, the utilization of native raw materials, etc. The Government grant to the Institute for 1924–25 was £24,755. In 1925 two of the most important investigations in progress were in connexion with the prickly pear pest and the manufacture of paper-pulp from Australian trees.

The Australian *Institute of Tropical Medicine*, Townsville, North Queensland, is under the control of the Commonwealth Department of Health. The staff, consisting of a Director, 4 medical officers, and an entomologist with technical assistants, etc., perform educational and diagnostic as well as investigational functions.

The NEW ZEALAND Institute, established in 1867, controls 3 funds which are available for grants to aid scientific workers: the Government Research Grant Fund, Hutton Memorial Fund, and N.Z Institute Endowment Fund. The Cawthron Institute of Scientific Research at Nelson concerns itself specially with agriculture and fruit-growing. The State Forest Service conducts experiments in regard to the value of the Dominion's timbers.

SOUTH AFRICA The Research Grant Board of the Union of South Africa, instituted by the Government in 1918, is attached to the Division of Industries and reports to the Minister of Mines and Industries and the Minister of Education. It administers the Government research scholarships and grants. The scholarships range in value from £80 to £250 p.a. for one or two years. The recipients are, in general, students who have already obtained university degrees and are undertaking research for the first time, under the supervision of their professors, though in some instances they are young professional men who have elected to give up the practice of their professions for a period in order to undertake research, also under suitable supervision. The recipients of research grants, on the other hand, are members of the staffs of the Univs. and others who have, most of them, a considerable amount of research already to their credit. The grants are made to defray such necessary expenses as the purchase of apparatus, material, and literature, travelling expenses and the cost of publication of the results of research. Since its inception the Board has allotted twenty-six scholarships and 122 grants-in-aid of research.

SOUDAN. At the Gordon Memorial College, Khartoum, are established the Wellcome Tropical Research Laboratories, where research and a large number of routine examinations are carried out by Government Bacteriologists, Chemists, and Entomologists.

RESEARCH IN INDIA

Under the new Constitution the development of industries is a Provincial transferred subject and the Government policy in regard to research work is to a large extent determined provincially. The *Indian Institute of Science*, Bangalore, is concerned with the application of science to industry; the practical side of research work conducted there has been developed in recent years. There are *Research Institutes* at Pusa (Agricultural, dealing with problems of general or all-India importance in the various sections of Botany, Chemistry, Bacteriology, etc.), Dehra Dun (Forestry: new Economic Workshops and Laboratories for timber and paper pulp research have been opened), and Cawnpore (General Applied Chemistry, Vegetable Oils, Leather, and Tinctorial Chemistry). The *Royal Institute of Science*, Bombay, is designed to conduct undergraduate teaching side by side with post-graduate research in the Departments of Chemistry, Physics, and Biology. The *Central Cotton Committee's Technical Research Laboratory*, Matumga, Bombay, opened in Dec. 1924, is for research work on cotton problems, testing of cotton yarns, and chemical examination of cotton

sent for trial. In addition, the Committee places grants-in-aid at the disposal of Provincial Departments of Agriculture for research work on cotton, and is contributing to the expenses of the new *Agricultural Research Institute* at Indore. At the *Imperial Bacteriological Laboratory*, Muktesar, research activities in cattle diseases have been developed on an unprecedented scale. Projects are in hand for a *School of Geology and Mines* at Dhambad and a *Forest Research Institute* in Burma. In addition there is a *Research Tannery* at Calcutta, and an *Imperial Research Laboratory* in Bengal is contemplated. Medical Research is carried out at the *Central Research Institute*, Kasauli, the *School of Tropical Medicine and Hygiene*, Calcutta, the *Bombay Bacteriological Laboratory*, the *King Institute of Preventive Medicine*, Madras, and at *Pasteur Institutes* at Kasauli, Coonoor, Shillong, and Rangoon. The *Indian Research Fund Association* finances enquiries into special diseases, and has done valuable work in connexion with leprosy, ankylostomiasis, etc.; the results are published in the quarterly *Indian Journal of Medical Research*. The *Indian Lac Association for Research* is financed by a cess on the exports of lac and employs the funds so received on research work connected with the cultivation of lac and the manufacture of shellac. The Research Station is situated in Ranchi. The *Sir J. C. Bose Research Institute*, Calcutta, founded in 1917, is concerned especially with Plant Biology. Its position has been consolidated by a grant from the revenues of the Govt. of India of Rs. 100,000.

INTERNATIONAL FOUNDATIONS AND ORGANIZATIONS FOR RESEARCH

FONDATION UNIVERSITAIRE, 11 rue d'Egmont, Brussels, founded in 1920 with a capital of 55 million francs derived from the unexpended balance of the funds of the Commission for Relief in Belgium, aims (1) at helping impecunious young Belgians to take courses in Institutions for higher education and (2) at developing scientific production in Belgium. It makes loans for the first purpose and grants and subsidies for the second. In the year 1923–24 its loans for University study amounted to 844,250 francs, its subsidies to 972,631 francs. The subsidies included grants for study to be carried on, in European Univs. 101,500 fr., for training in Scientific Research 33,500 fr., for research workers 117,550 fr., to periodical publications 209,572 fr. Grants for study in American Universities were made to 34 Belgian graduates and grants for study in Belgian Universities were made to 9 Americans. The Foundation arranges exchange visits of Professors. A club-house was established at 11 rue d'Egmont in 1922 for Belgian Univ. Professors. It is open also to foreign professors invited by members of the club. It has lodging accommodation.

ELLEN RICHARDS RESEARCH PRIZE, $1000, for a thesis written in *English by a woman* on a scientific subject. Latest date, Feb. 28. Particulars obtainable from Dr. Lilian Welsh, Goucher College, Baltimore, Md., U.S.A.

NOBEL PRIZES, founded by Alfred Nobel, who died in 1896, awarded for contributions to the common good by workers in (*a*) Physics,

(*b*) Chemistry, (*c*) Medicine or Physiology, (*d*) Literature, (*e*) the Preservation of Peace. The prizes, worth from Kr. 115,000 to Kr. 150,000 each, are awarded for (*a*) and (*b*) by the Swedish Academy of Science, for (*c*) by the Stockholm Faculty of Medicine, for (*d*) by the Swedish Academy of Literature, and for (*e*) by a committee elected by the Norwegian Storthing. Among the categories of persons qualified for candidature for prize (*e*) are University Professors of Political Science and Law, of History, and of Philosophy. Particulars can be obtained from Nobelstiftelsens Styrelse, Norlandsgatan 6, Stockholm, Sweden. Among prize-winners of past years the following have a special interest for English-speaking students: (*a*) 1904, Lord Rayleigh; 1906, J. J. Thomson; 1907, A. A. Michelson; 1915, W. H. Bragg and W. L. Bragg; 1917, Ch. G. Barkla; 1923, R. A. Millikan; (*b*) 1904, Sir Wm. Ramsay; 1908, E. Rutherford; 1914, T. W. Richards; 1922, F. Soddy, F. W. Aston; (*c*) 1902, Sir Ronald Ross; 1912, Alexis Carrel; 1922, A. V. Hill; 1923, F. G. Banting and J. J. R. Macleod; (*d*) 1907, Rudyard Kipling; 1913, Rabindranath Tagore; 1923, W. B. Yeats; (*e*) 1903, Sir W. R. Cremer; 1906, Theodore Roosevelt; 1912, Elihu Root; 1919, W. Wilson. Award in 1925, (*a*) Prof. Siegbahn of Sweden.

Fondation George Montefiore offers triennially a prize of the value of 22,000 francs " au meilleur travail original présenté sur l'avancement scientifique et sur les progrès dans les applications techniques de l'électricité dans tous les domaines, à l'exclusion des ouvrages de vulgarisation ou de simple compilation." Work should be received by April 30, 1927, by M. le Secrétaire-archiviste de la Fondation George Montefiore à l'hôtel de l'Association, rue Saint-Gilles 31, Liége (Belgique). It may be in English or French.

Visser International Law Prize (triennial). Administered by Leyden Univ. (Legatum Visserianum). 5000 guilders. Next competition, 1926.

Prix Hollandais, 8000 fr., and Prix d'Ault du Mesnil, 1800 fr., for work in physical or prehistoric anthropology, triennially beginning 1927. Institut International d'Anthropologie, 15 rue de l'École de Médecine, Paris, vi.

International Research Council, Palais des Académies, Brussels. General Secretary—Sir Arthur Schuster, Royal Society, Burlington House. This body has been constituted with effect from Jan. 1, 1920, in pursuance of a resolution adopted in Nov. 1918 at a Conference in Paris at which the principal Allied Academies were represented. Under the auspices of the Council, *International Unions* have been formed for Astronomy, Geodesy and Geophysics, Pure and Applied Chemistry, Mathematics, Physics, Radio-Telegraphy, Biological Sciences, and Geography.

Union Académique Internationale (for co-operation in the advancement of studies by means of collective researches and publications in the fields of Archæology, History, Philology, and Moral, Political and Social Science). The Union was constituted in 1919 on the initiative of the Académie des Inscriptions et Belles-Lettres. Its address is Palais des Académies, Bruxelles.

XXV

NOTES ON FOREIGN UNIVERSITIES

[*From 1921 to 1925 inclusive the Yearbook has contained in this appendix brief notes concerning the principal foreign universities. It has been decided, in view of the publication by the National Union of Scottish Students of a new* HANDBOOK ON FOREIGN STUDY, *to discontinue these notes for the present, with the exception of the accounts of universities in the United States, which are retained on account of the great increase that has recently taken place in the number of scholarships for British students tenable in that country*]

The LEAGUE OF NATIONS COMMITTEE ON INTELLECTUAL CO-OPERATION has entrusted to the University Relations Section of the *International Institute of Intellectual Co-operation*, Palais Royal, Paris, the publication of the *Bulletin* formerly issued by it at Geneva. Annual subs. (6 Nos), 10s. 6d

The CONFÉDÉRATION INTERNATIONALE DES ETUDIANTS was formed at Strasbourg in 1919 by official representatives of the National Unions of Students of Belgium, Czecho-Slovakia, France, Luxembourg, Poland, Roumania, and Spain, and unofficial representatives of students of 10 other countries — Denmark, England, Greece, Holland, Italy, Norway, Sweden, Switzerland, U.S.A., and Yugoslavia—which had, at that time, no national unions. The Council of the C.I.E. met at Brussels in 1920 to organize the first Congress, which was held at Prague in 1921. At this Congress National Unions of England and Wales, Finland, Holland, Norway, Scotland, Switzerland, Sweden, and Yugoslavia were admitted as full members, and a representative of emigrant students from Ukraine as an unofficial member. The Council met again at The Hague and at Oxford in 1923, and the Second Congress took place at Warsaw in Sept. 1924, when the National Unions of Bulgaria, Esthonia, Hungary, Lithuania, and Turkey were admitted as full members, and the following as unofficial members · National unions of New Zealand and South Africa and "Oreso" (association of Russian emigrant students), and representatives of students of Georgia and of Hong-Kong; and it was decided to collaborate effectively with the national union of German students (Deutschestudentenschaft). In 1925 the Algemeene Senaten Vergadering of the students' senates of Holland was admitted as a free member. The confederation aims at promoting friendship between students and student bodies throughout the world and the study of international questions relative to higher education and the conditions of student life.

The central office is at Brussels. Administrateur—J. Bauguiet, Dr. Jur. Avocat, 82 Avenue Molière. Executive Committee: President, J. Balinski-Jundzill, 11 rue Wiejka, Warsaw; First Vice-President, Ivison Macadam, c/o N.U.S., 3 Endsleigh St., London, W.C.1; Vice-

Presidents, T. Bergh, Lund, and G. Antebi, Paris. Secretary-General, Frantisek Munk, Akademicky Dum Prague III. Joint-Secretary, Orazi Spartaco, via Gaeta, 19, Rome 21. Treasurer, M. I. Macdonald, c/o S R.C., The University, Edinburgh.

The WORLD'S STUDENT CHRISTIAN FEDERATION, 16 Boulevard des Philosophes, Geneva, publishes a monthly News Sheet, *The Student World* (quarterly), and annually a *Directory and Exchange List*, and a list of *Foyers* and *Student Hostels*

An INTERNATIONAL FEDERATION OF UNIVERSITY WOMEN was founded in 1920 "to promote understanding and friendship between the university women of the nations of the world, and thereby to further their interests and develop between their countries sympathy and mutual helpfulness." It has branches in twenty-three countries. The Federation assists travelling members by providing introductions, and by the establishment of club-houses in such centres as Paris, London, Brussels, New York, Washington, Philadelphia, etc. It provides travelling fellowships for women graduates (v. Appendix XXIV., p. 662), and promotes the exchange of university and secondary school teachers between different countries Officers (1924–26): *President*, Dean Virginia C. Gildersleeve, Barnard College, Columbia Univ.; *Vice-Presidents*, Docent Ellen Gleditsch, Univ. of Oslo; Prof. Winifred Cullis, Univ. of London; Mlle. M. Mespoulet, Paris; *Treasurer*, Mrs. Thomas R. White, Philadelphia; *Secretary*, Miss Theodora Bosanquet, 92 Victoria Street, London, S.W.1. International Conferences are held biennially. The next Conference will be held in Amsterdam in August 1926.

The UNIVERSITIES RELIEF COMMITTEE, formerly under the auspices of the Imperial War Relief Fund, was created in July 1920 on the initiative of Lord Cecil. The aim of this Committee has been to relieve professors, men of letters and science, and students, attached to the Universities of Central Europe and Russia, by the collection and distribution of books, scientific periodicals, food and clothing. These gifts are administered either through committees in each University, or in the case of students and professors in Russia, through the European Student Relief Committee of the World's Student Christian Federation. The British share of such gifts amounted in the four academic years 1920–24 to over £114,000. In the academic year 1924–25 the Universities' Relief Committee was concentrating its main effort on the relief of Russian refugee students in the various countries of Europe, in particular, refugees in Serbia, France, and Czecho-Slovakia. *Address*—Annandale, North End Road, Golders Green, London, N.W.11. Address of the European Student Relief Committee—5 Rond-Point de Plainpalais, Geneva.

A DIRECTORY OF THE UNIVERSITIES and other learned institutions of the world somewhat similar to *Minerva* (Walter de Gruyter & Co., Leipzig) has recently been established in Paris under the name *Index Generalis* (56 Rue de Vaugirard, Paris 6; London Agents, Dent & Sons, Ld., 10 Bedford St., W.C.2).

Among foreign organizations useful to British students may be mentioned: Austria—(1) Kursorganisation der Wiener medizinischen Fakultät, Vienna ix. 1, Porzellang 22, from which programmes of medical courses for foreigners and others can be obtained; (2) Minerva Buro, Vienna viii., Schlosselgasse 22 (information about board and lodging); (3) Wiener Internat. Hochschul Kurse, Vienna ix., Boltzmanngasse 16.

Denmark—Anglo-Danish Students' Bureau, 50 Russell Sq., London, W.C.1.

Egypt—Educational Mission in England, 28 Victoria St., Westminster, London, S.W.1.

France—Office National des Universités et Écoles Françaises, London Branch, 1-7 Cromwell Gardens, London, S.W.7. The Office has just published a comprehensive Handbook giving information about the French universities and the entire system of organisation of education in France. Price 5s.

Germany—Deutsches Institut für Ausländer, Universitat Berlin, C 2 Universitäts-gebäude. Publishes, monthly, *Mitteilungen*.

Holland—Netherlands Committee for international academic relations, 33 Wasstraat, Leyden.

Italy—Istituto Interuniversitario Italiano, R. Palazzo Venezia, N. 118, Roma. [There is a *British Institute* at Florence, Palazzo Antinori, Piazza Antinori, 3, comprising a School in English for Italians, with 3 years' (elementary), 2 years' (higher), and 2 years' (finishing) courses, a reading-room and library, and the organizing of lectures, concerts, etc. Its Higher Diploma is of the standard of the Doctorate of an Italian Univ. Director—Dr. H. Goad. Profs.—G. Ferrando, A. Ricci. Teachers—Mme. C. Orsi-Plucknett, Miss H. M. R. Cox, Miss M. Cave. Number of students about 140. About 75 classes or lectures weekly during 8 months.]

Norway—Studie-Oplysningskontoret, Universitetet, Oslo.

Spain—Centro de Estudios Historicos, Almagro, 26, Madrid.

Switzerland—Office Central Universitaire Suisse, rue de l'Hôpital 30, Berne.

UNITED STATES OF AMERICA

In the 780 Universities, Colleges, and Professional Schools which submitted returns for 1921–22 to the United States Bureau of Education there were enrolled in that year 618,555 students, of whom rather more than one-third were women. Of these institutions 119 were under public and 661 under private control; 116 were independent professional schools. Of the total number of students 67,649 were in pre-matriculation departments and 23,016 were in graduate schools. Law students numbered 29,011, medical 17,522, dental 11,790, theological 8430, pharmacy 8213, engineering 56,649. For full information about American Universities students in this country are advised to apply to the American University Union in Europe, British Division, 50 Russell Sq.;

on the continent of Europe to the Paris office of the Union, 17 Boulevard St. Germain. In Rome there is an American Academy at Porta San Pancrazio 29. In Belgium the Fondation Universitaire, which administers numerous scholarships tenable in American institutions of higher learning, has its office at 74 rue de Namur, Bruxelles. In Prague there is an American Institute. In America reference may be made to the Secretary to the Board of Trustees of the American University Union, Prof. J. W. Cunliffe, Columbia Univ., New York City; to the American Council on Education, 26 Jackson Place, Washington; or to the Institute of International Education, 2 West 45th Street, New York. This Institute published, in 1924, a *Guidebook for Foreign Students in the U.S.A.* The Bureau of Education of the United States Department of the Interior published in 1921 a Bulletin (No. 39 of 1920) on "Facilities for Foreign Students in American Colleges and Universities." This is obtainable from the Government Printing Office, Washington, D.C., at 15 cents a copy. A recent Australian view of American Univ. life and organization is given in *The American University* by E. R. Holme of the Univ. of Sydney (Angus and Robertson, Ltd., Sydney, 1920, 7s. 6d.). A description of American Univs. from the point of view of a French scientist is given in *Universities and Scientific Life in the U.S.A.*, by Prof. M. Caullery (Oxford Univ. Press, 1922, 10s. 6d.).

"International House," Riverside Drive, New York, opened Sept. 1924, is a residential club for over 500 foreign and American students. The requisite funds were provided by J. D. Rockefeller, Junior, who also founded the "International Education Board" (chartered Jan. 16, 1923). This Board has established the International Institute of Teachers College (v. *infra*, Columbia Univ.).

The British Information Library, 44 Whitehall Street, New York, established Dec. 1919, for the convenience of Americans desiring information on British current affairs, is a branch of the News Department of the Foreign Office, from which it is well supplied with official documents and other publications. It has become the recognized centre for information on British Empire affairs. It is in close touch with the Dominion Trade Commissioners in New York, and can give information on Dominion affairs. Wherever possible official documents are lent, on request, to American libraries under the usual inter-library loan conditions. Early copies of documents dealing with matters of general interest, such as foreign affairs, finance, education, social welfare, industrial relations, mineral and oil resources, etc., are received regularly directly from London. The Library also has an important file of documents on Indian affairs, and some of the leading Indian newspapers. It is entirely free to the public, and information is gladly given to all enquirers. The Bureau of Clinical Information, 17 West 43rd St., New York, offers a welcome to British doctors visiting that city.

American Professors on leave of absence sometimes receive grants for expenses of foreign travel from the Institute of International Education, and report to the Institute on their observations while teaching in foreign Institutions. Columbia, Pennsylvania, Johns Hopkins, Cornell, Harvard, Mass. Inst. Tech., and Yale co-operate in arranging exchanges with France of Professors of Applied Science.

For information as to American University and College Scholarships for British students see Appendix XXIV. (xxii).

A British-American Association of Phi Beta Kappa (founded 1776—a society of American University scholars of distinction) was formed in England in 1924 under the presidency of Lord Balfour. Address, American University Union, 50 Russell Sq., London, W.C.1.

The UNIVERSITY CENTRE FOR RESEARCH IN WASHINGTON, constituted in 1921, is maintained by a voluntary association of scholars, to promote and facilitate research in archives, libraries and other collections located in the District of Columbia, on the part of students in the graduate departments of American and Foreign Univs. and of others. Technical Divisions of History, Polit. Sc., Internat. Law and Diplomacy, Economics, and Statistics have been established. Students in foreign Univs. and other investigators desiring to avail themselves of its services should apply to the Director of the American Council on Education, 24-26 Jackson Place, Washington, D C.

AMERICAN DEGREES (non-professional). The following notes are based on a Report presented by a Committee of the American Council on Education to the French Ministry of Public Instruction: The American Colleges, both those which are independent institutions and the colleges of liberal arts within Universities, award the A.B. (or B.S.) degree to students who complete a 4 years' course. Ordinarily the student at the time of admission to the college is about 18 years of age and has completed a 4 years' course in a secondary school. A considerable portion of his work at college belongs, however, to what in European countries is called secondary education. A peculiarity of the American system of grading, both in secondary and in higher institutions, is the weight attached to the length of time spent under instruction, a degree being attainable by gradual accumulation of a specified number of "credits" (certificates of definite periods of time spent successfully under instruction), which thus largely replace the examinations used in other countries for testing the student's capacity at various intervals. The college graduate who aspires to the degree of M.A. (or M.S.) proceeds to the Graduate School of a University (the professional schools of law, medicine, etc., with few exceptions, admit undergraduates), and there pursues his studies, either general or, if aiming at a subsequent doctorate, specialized, for one year. The Ph.D. requirements are ordinarily "3 years of resident study, beyond the baccalaureate, the presentation of a thesis embodying the results of original research, and the passing of a comprehensive examination testing the candidate's knowledge of his chosen field of learning."

The Report points out that higher education in the U.S.A. is largely autonomous, there being no control by the Federal Government and little control by the political authorities of any State. Such standardization as has been effected has come through the voluntary efforts of groups of institutions having similar ideals and purposes. Conspicuous among these is the Association of American Universities. The Report recommends the admission to candidacy for the State Doctorate of any student holding the M.A. or M.S. degree of an institution belonging to

the Assocn. of American Univs. who has specialized in the branch of learning chosen for the work for the doctorate, and proved to the satisfaction of the head of his department and of the Dean of the Graduate School of his Univ. his capacity for research; also candidates for the Ph.D. in one of those institutions who have completed 2 or more years of study for the Ph.D., and proved their capacity for research; also holders of a Ph.D. from one of those institutions. The institutions in question are starred (*) in the list given below. In other cases it is suggested that reference should be made to the Committee, 24-26 Jackson Place, Washington.

Below is given a list of 171 institutions approved by the Association of American Univs. This list has been adopted by most of the Univs. of the U.K. for the purpose of admission of graduates with a view to qualifying for the Ph.D. degree (v. p. 17). They may be classified as:

I. 34 Univs. of complex organization, usually with *graduate schools* and certain professional and technological schools. These are the 26 members of the Assocn., and Boston, New York, and Western Reserve and the Univs. of Cincinnati, Colorado, Pittsburgh, Texas, and Washington.

II. 16 *Technological Institutions*: Brooklyn Polyt. Inst., California Inst. Tech. (v. Supplementary list), Case School of Applied Science, Clarkson School of Tech., Iowa State College, Lehigh Univ., Mass. Agr. College, Mass. Inst. Tech., Pennsylvania State College, Purdue Univ., Rensselaer Polyt. Inst., Rose Polyt. Inst., State College of Washington, Stevens Inst. Tech., Worcester Polyt. Inst., United States Military Academy, New York.

III. The remaining 121 *Colleges*: primarily organized with undergraduate curricula leading to the A.B. or B.S., in some cases with strong technological divisions, and occasionally a strong professional school.

Allegheny College, Meadville, Pa.; ‡Amherst College, Amherst, Mass.; †Barnard College, New York, N.Y.; Bates College, Lewiston, Me.; Beloit College, Beloit, Wis.; Boston University, Boston, Mass.; ‡Bowdoin College, Brunswick, Me.; ‡Brooklyn Polytechnic Institute, Brooklyn, N.Y.; Brown University, Providence, R.I.; §Bryn Mawr College, Bryn Mawr, Pa.; Carleton College, Northfield, Minn.; ‡Case School of Applied Science, Cleveland, Ohio; *Catholic University of America, Washington, D.C.; ‡Central University of Kentucky, Danville, Ky.; Clark College, Worcester, Mass.; ‡Clarkson School of Technology, Potsdam, N.Y.; *Clark University, Worcester, Mass.; Coe College, Cedar Rapids, Iowa; Colby College, Waterville, Me.; ‡Colgate University, Hamilton, N.Y.; ‡ †College of the City of New York, New York, N.Y.; †College of St. Catherine, St. Paul, Minn.; § †College of St. Elizabeth, Convent Station, N.J.; Colorado College, Colorado Springs, Colo.; *Columbia University, New York, N.Y.;

* Institutions starred are members of the Association of American Universities.

† Added at the meeting of the Association in November of 1917.

‡ For men only. § For women only.

Cornell College, Mt. Vernon, Iowa; *Cornell University, Ithaca, N.Y.; Dartmouth College, Hanover, N.H.; De Pauw University, Greencastle, Ind.; Dickinson College, Carlisle, Pa.; Drake University, Des Moines, Iowa; Drury College, Springfield, Mo.; Earlham College, Richmond, Ind.; §Elmira College, Elmira, N.Y.; ‡Fordham University, Fordham, N.Y.; Franklin College, Franklin, Ind.; Goucher College, Baltimore, Md.; Grinnell College, Grinnell, Iowa; ‡Hamilton College, Clinton, N.Y.; *Harvard University, Cambridge, Mass.; ‡Haverford College, Haverford, Pa.; Hobart College, Geneva, N.Y.; *Indiana University, Bloomington, Ind; Iowa State College, Ames., Iowa; *Johns Hopkins University, Baltimore, Md.; ‡Kenyon College, Gambier, Ohio; Knox College, Galesburg, Ill.; ‡Lafayette College, Easton, Pa.; § †Lake Erie College, Painesville, Ohio; Lake Forest College, Lake Forest, Ill.; Lawrence College, Appleton, Wis.; Lehigh University, South Bethlehem, Pa.; *Leland Stanford Jr University, Stanford University, Cal.; †Macalester College, St. Paul, Minn.; Marietta College, Marietta, Ohio; †Massachusetts Agricultural College, Amherst, Mass; Massachusetts Institute of Technology, Boston, Mass.; Miami University, Oxford, Ohio; Middlebury College, Middlebury, Vt.; § †Mills College, Oakland, Cal.; § †Milwaukee-Downer College, Milwaukee, Wis.; Mount Holyoke College, South Hadley, Mass.; †Municipal University of Akron, Akron, Ohio; New York University, New York City; *Northwestern University, Evanston, Ill.; Oberlin College, Oberlin, Ohio; *Ohio State University, Columbus, Ohio; Ohio Wesleyan University, Delaware, Ohio; Pennsylvania State College, State College, Pa.; Pomona College, Claremont, Cal.; *Princeton University, Princeton, N.J.; Purdue University, Lafayette, Ind.; Radcliffe College, Cambridge, Mass.; § †Randolph-Macon Women's College, Lynchburg, Va.; Reed College, Portland, Oregon; ‡Rensselaer Polytechnic Institute, Troy, N.Y.; Ripon College, Ripon, Wis.; § †Rockford College, Rockford, Ill.; ‡Rose Polytechnic Institute, Terre Haute, Ind.; ‡Rutgers College, New Brunswick, N.J.; Smith College, Northampton, Mass.; State College of Washington, Pullman, Wash.; *State University of Iowa, Iowa City, Iowa; ‡Stevens Institute of Technology, Hoboken, N.J.; Swarthmore College, Swarthmore, Pa.; Syracuse University, Syracuse, N.Y.; Trinity College, Durham, N.C.; ‡Trinity College, Hartford, Conn.; †Trinity College, Washington, D.C.; Tufts College, Medford, Mass.; Tulane University, New Orleans, La.; ‡Union University, Schenectady, N.Y.; †University of Alabama, University, Ala.; *University of California, Berkeley, Cal.; *University of Chicago, Chicago, Ill.; University of Cincinnati, Cincinnati, Ohio; University of Colorado, Boulder, Colo.; ‡University of Georgia, Athens, Ga.; *University of Illinois, Urbana, Ill.; *University of Kansas, Lawrence, Kan.; University of Maine, Orono, Me.; *University of Michigan, Ann Arbor, Mich.; *University of Minnesota, Minneapolis, Minn.; *University of Missouri, Columbia, Mo.; *University of Nebraska,

* Institutions starred are members of the Association of American Universities.

† Added at the meeting of the Association in November of 1917.

‡ For men only. § For women only.

Lincoln, Neb.; *University of North Carolina, Chapel Hill, N.C.; University of North Dakota, University, N.D.; †University of Oklahoma, Norman, Okla.; University of Oregon, Eugene, Ore.; *University of Pennsylvania, Philadelphia, Pa.; University of Pittsburgh, Pittsburgh, Pa.; University of Rochester, Rochester, N.Y.; University of South Dakota, Vermillion, S.D.; ‡University of the South, Sewanee, Tenn.; University of Tennessee, Knoxville, Tenn.; University of Texas, Austin, Texas; University of Vermont, Burlington, Vt.; ‡ *University of Virginia, Charlottesville, Va.; University of Washington, Seattle, Wash.; †University of West Virginia, Morgantown, W.Va.; *University of Wisconsin, Madison, Wis.; University of Wooster, Ohio; Vanderbilt University, Nashville, Tenn.; §Vassar College, Poughkeepsie, N.Y.; ‡Wabash College, Crawfordsville, Ind.; †Washburn College, Topeka, Kan.; ‡Washington and Jefferson College, Washington, Pa.; ‡ †Washington and Lee University, Lexington, Va.; *Washington University, St. Louis, Mo.; §Wellesley College, Wellesley, Mass.; §Wells College, Aurora, N.Y.; ‡Wesleyan University, Middletown, Conn.; Western Reserve University, Cleveland, Ohio; †Whitman College, Walla Walla, Wash.; ‡William Jewell College, Liberty, Mo.; ‡Williams College, Williamstown, Mass.; ‡Worcester Polytechnic Institute, Worcester, Mass.; *Yale University, New Haven, Conn.

Supplementary list of institutions admitted since Nov. 1917: Agnes Scott College, Decatur, Ga.; Alfred University, Alfred, N.Y.; Birmingham-Southern College, Birmingham, Ala.; California Institute of Technology, Pasadena, Cal.; Carthage College, Carthage, Ill.; College of St. Teresa, Winona, Minn.; Converse College, Spartanburg, S.C.; Davidson College, Davidson, N.C.; Denison University, Granville, Ohio; Hamline University, St. Paul, Minn.; Hunter College, New York, N.Y.; Illinois College, Jacksonville, Ill.; Illinois Woman's College, Jacksonville, Ill.; Morningside College, Sioux City, Iowa; New York State Teachers' College; New Rochelle College, New Rochelle, New York; North-Western College, Naperville, Ill., Occidental College, Los Angeles, Cal.; Park College, Parkville, Mo.; Sweet Briar College, Sweet Briar, Va.; University of Arkansas, Fayetteville, Ark.; University of Florida, Gainesville, Florida; University of Idaho, Moscow, Idaho; University of Kentucky, Lexington, Ky.; University of Maryland, College Park, Md.; University of Nevada, Reno, Nev.; University of Southern California, Los Angeles, Cal.; University of Utah, Salt Lake City, Utah; Western College for Women, Oxford, Idaho; Westminster College, New Wilmington, Penn.; Wheaton College, Norton, Mass.; William and Mary College, Williamsburg, Va.

The following particulars of the 26 institutions belonging to the Assocn. of American Univs. have been kindly supplied by the American University Union in Europe, British Division. All are co-educational,

* Institutions starred are members of the Association of American Universities.

† Added at the meeting of the Association in November of 1917.

‡ For men only. § For women only.

except C.U.A., Clark, Harvard, Princeton, Virginia, and Yale, and even these, except C.U.A. and Princeton, admit women for graduate work. Where not otherwise stated the Fees charged at Halls of Residence or dormitories are for rooms (with heating and light) without board. Fees payable on matriculation and on graduation have not been specified. They range between $5 and $30. Fuller information, including particulars of equipment and research funds, library facilities, and facilities for publication of research results, is given in *Opportunities for Study at American Graduate Schools*, Bulletin, 1921, No. 6, of the United States Bureau of Education. The American Council on Education has in hand the preparation of a *United States Universities Yearbook*.

CALIFORNIA, UNIVERSITY OF (founded 1868), Berkeley, Cal. (State Univ.). *President*: W. W. Campbell, Sc.D., LL.D. *Deans*: Graduate Division—C. B. Lipman, Ph.D.; Undergraduate Division—T. M. Putnam; College of Letters and Science—Monroe E. Deutsch; Agric. —E. O. Merrill; Mechanics—C. L. Cory, M.E., E.D.; Mining—F. H. Probert; Civil Engineering—C. Derleth, C.E.; Chemistry—G. N. Lewis, A.M., Ph.D.; Commerce—S. Daggett, A.M., Ph.D.; Education —W. W. Kemp, Ph.D.; Jurisprudence—O. K. McMurray; Medicine (actg.)—L. S. Schmitt, M.D.; Dentistry—G. S. Millberry. Director of School of Archit.—J. G. Howard; Division of Vocational Education —F. L. Griffen (actg.).; Cal. School of Fine Arts—E. S. Macky; Hasting Coll. of Law—W. M. Simmons; Pharmacy—F. T. Green.

Library: 500,000 vols. *Fees*: Tuition, $150 p.a.; Incidental, $50 p.a. *Living Expenses in Berkeley*: Board and lodging, $35 to $55 p.m. *Teaching Staff*: 1599. *Students*: 16,194; Undergraduates 9318, Law 310, Med. 249, Dent. 435, Teachers' College 217. *Summer Session* in all departments, 6 weeks, 6465 students; address, the Dean of the Summer Session.

CATHOLIC UNIVERSITY OF AMERICA (founded 1889), Washington, D.C. *Rector*: Rt. Rev. T. J. Shahan, S.T.D., J.U.L., LL.D. *Deans of Faculties*: Sacred Sciences—Very Rev. P. J. Healy, S.T.D.; Law— P. J. McLoughlin, J.D.; Philosophy—C. H. McCarthy, Ph.D.; Letters —P. J. Lennox, Litt.D.; Sciences—A. E. Landry, Ph.D.; President of Divinity Coll.—Rev. E. A. Gilgan, S.S., S.T.D.

Library: 160,000 vols. *Fees* for tuition: $300 p.a. *Halls of Residence*: Board and room, $48 p.m. *Teaching Staff*: 99. *Students*: 2059; Sac. Sc. 19, Canon 18, Law 28, Philos. 224, Lett. 46, Sc. 183, Div. Coll. 1641. *Summer School* for Catholic women teachers, 6 weeks, 700 students, Registrar.

CHICAGO, UNIVERSITY OF (1891), Chicago, Ill. *President*: Max Mason, Ph.D. *Deans*: Graduate School of Arts and Lit.—G. J. Laing, Ph.D.; Ogden Graduate School of Science—H. G. Gale, Ph.D., Colleges of Arts, Lit., and Science—E. H. Wilkins; University College —E. T. Filbey; Divinity School—S. Mathews: Law School—J. P. Hall; Medical Students—B. C. H. Harvey; School of Commerce and Admn.—W. H. Spencer; Graduate School of Social Service Admn.— Edith Abbott; College of Educn.—W. S. Gray; School of Educn. (Director)—C. H. Judd.

Libraries: 700,000 vols., 200,000 pamphlets. *Fees*. Tuition, $60 a quarter. *Halls of Residence*: $40 to $85 a quarter. Board not less than $7 a week. *Teaching Staff*: 377. *Students*: 13,357, Graduate Schools 3717, Colleges 3617, Univ. College 3143, Divinity 455, Medical 375, Law 466, Education 1675, Commerce 741, Grad. Sch. of Social Service Admn. 96. *Summer quarter* in all departments, 10 weeks; address, Examiner of the Univ.

CLARK (founded 1889), Worcester, Mass. *President*: Wallace W. Atwood. *Dean of the Collegiate Dept.*: H. P. Little.

Libraries: 109,000 vols., 500 journals. *Fees* for tuition: $150 p.a. *Halls of Residence* for a few male graduate students only. Furnished rooms near from $3 per week. Board from $7. *Teaching Staff*: 60. *Students*: 411; Graduate 71, Undergrad. 179, special 47. *Summer School*, chiefly Geography and History, 5 weeks, 142 students; Registrar.

COLUMBIA (founded 1754), New York City. *President*: Nicholas Murray Butler, Ph.D., LL.D., D.Litt. *Deans of Faculties*: Pol. Sc., Philos., and Pure Sc.—F. J. E. Woodbridge, A.M., LL.D.; Applied Sc.—G. B. Pegram, Ph.D.; Law—H. W. Jervey, LL.B.; Medicine—W. Darrach, M.D.; Columbia College—H. E. Hawkes, Ph.D.; Barnard Coll.—Virginia C. Gildersleeve, Ph.D.; Teachers' Coll—J. E. Russell, Ph.D., LL.D.; Coll. of Pharmacy—H. H. Rusby, M.D. Directors of Architecture—W. A. Boring; Journalism—J. W. Cunliffe; Business—J. C. Egbert.

Libraries: 895,000 vols. *Fees*: Tuition, $310 p.a. *Halls of Residence*: $135 to $215 p.a. *Teaching Staff*: 1771. *Students*: 24,188; undergraduate 3083, graduate 2233, Law 711, Med. 406, Appl. Sc. 212, Archit. 81, Journalism 151, Bus. 378, Dent. 379, Teachers' College 4894, Pharm. 823. *Summer Session* in all depts., 5 weeks, 12,916 students; Director, J. J. Coss, A.M.

The "International Institute," established in 1923 with the aid of an annual contribution of $100,000 for ten years from the International Education Board (founded by John D. Rockefeller, 1923), is an integral part of Teachers' College which had in that year some 250 foreign students and over 100 Americans who held posts as teachers in other countries. The Institute's work comprises: (*a*) Presentation of general view of American educational system and its adaptation to foreign situations and problems; (*b*) visitation of American Schools for study of conditions and procedure; (*c*) investigation of educational conditions in foreign countries; (*d*) instruction in American ideals and institutions as a basis for understanding American education; (*e*) publication of *International Education Year-Book* dealing with progress of educn. in various countries each year and completing once in 5 years an account of every country in the world.

CORNELL (founded 1868), Ithaca, N.Y. *President*: Livingston Farrand, M.D., LL.D. *Deans of Colleges*: Arts and Science—R. M. Ogden; Medical—W. L. Niles, M.D.; Agric.—A. R. Mann, A.M.; Archit.—F. H. Bosworth; Engin.—D. S. Kimball, M.E.; Graduate School—R. R. H. Keniston, Ph.D., LL.D.; Faculty of Law—G. G. Bogert; Veterinary—V. A. Moore.

Libraries: 710,000 vols. and pamphlets. Over 2000 current periodicals received. *Fees* for tuition: Coll. of Arts and Sc., $300 p.a.; Graduate School, $75 p.a. *Teaching Staff*: 960. *Students*: 5588; Graduate 544, Arts and Sc. 1919, Law 113, Eng. 1355, Archit. 181, Med. 274, Vet. 87, Agr. 1221. *Summer Session* in all depts., 6 weeks, 2229 students; Registrar.

HARVARD (founded 1638), Cambridge, Mass. *President*: Abbott Lawrence Lowell, LL.D. *Deans*: Faculty of Arts and Sc.—Le Baron R. Briggs, LL.D., Litt.D.; Graduate School of Arts and Science—J. L. Lowes, Ph.D.; Harvard College—C. N. Greenough, Ph.D.; Special Students (in charge of Univ. Extension)—A. F. Whittem, Ph.D.; Engineering Sch.—H. J. Hughes; Faculty of Archit.—G. H. Edgell, Ph.D.; Graduate Sch. of Business Admn.—W. B. Donham, LL.B.; Bussey Institn.—W. M. Wheeler, Ph D.; Theological School—W. L. Sperry, D.D.; Faculty of Law—Roscoe Pound, Ph.D., LL.D.; Graduate Sch. of Educn.—H. W. Holmes: Medical Sch.—D. L. Edsall, M.D.; Dental Sch.—L. M. S. Miner.

Libraries: College, 1,400,000 vols. and pamphlets; Departmental, 2,322,400. *Fees*: Tuition, $300 p.a. *Halls of Residence*: $50 to $200 p.a. Board, $240 to $350 p.a. *Teaching Staff*: 1088. *Students*: 7075; Arts and Sc. 3794, Eng. 258, Div. 74; Law 1201, Med. 506, Dent. 205, Busi. 614, Archit. 89, Ed. 272, Bussey Inst. (Applied Biology) 25, Pub. Health 30. *Summer Session* in all depts., 6 weeks, 2686 students; Director.

ILLINOIS, UNIVERSITY OF (founded 1868), Urbana, Ill. (State Univ.). *President*: David Kinley, Ph.D., LL.D. *Deans of Colleges*: Liberal Art and Sc.—K. C. Babcock, B.Lit., Ph.D., LL.D.; Commerce and Business Admn.—C. M. Thompson, Ph.D., LL.D.; Engineering—M. S. Ketchum, C.E.; Agric.—H. W. Mumford, B.S.; Law—A. J. Harno, B.S., LL.B.; Graduate School—A. H. Daniels, Ph.D.; Education—C. E. Chadsey, Ph.D.; Medicine—A. C. Eycleshymer, Ph.D., M.D.; Dentistry—F. B. Moorehead, D.D.S., M.D.; School of Pharmacy—W. B. Day, Ph.G.; Sch. of Music (Director)—F. B. Stiven, B.Mus., A.A.G.O.; Library School (Dir.)—P. L. Windsor, Ph.B.; Railway Engin. and Admn.—M. S. Ketchum, C.E. (Dir.).

Library: 535,000 vols., 60,000 pamphlets. *Fees* for tuition: $75 p.a. *Halls of Residence*: $108 to $180 p.a. (single rooms); $81 to $150 (double). Board, $260 to 360 p.a. *Teaching Staff*: 1226. *Students*: 12,092; Arts and Sc. 3582, Com. 2126, Ed. 707, Eng. 1517, Agr. 672, Law 248, Grad. 644, Med. 470, Dent. 126, Phm. 440. *Summer Session* in all depts., 7 weeks, 2227 students; Director.

INDIANA (founded 1820), Bloomington, Ind. (State Univ.). *President*: Wm. Lowe Bryan, Ph.D., LL.D. *Deans of Schools*: Graduate School—C. H. Eigenmann, Ph.D.; Medicine—C. P. Emerson, M.D.; Education—H. Lester Smith, Ph.D.; Law—Paul Y. McNutt, LL.B.; Commerce and Finance—W. A. Rawles, Ph.D.; Music—B W. Merrill; College of Arts and Sc.—S. E. Stout, Ph.D., and D. A. Rothrock, Ph.D.

Library: 170,000 vols. *Fees*: $47 50 a semester. *Living Expenses* in Bloomington, per week: Room, $2 to $5; Board, $5 to $7.

Teaching Staff: 226. *Students*: 5106; graduate 340, Med. 350, Ed. 380, Law 120, College 3916. *Summer Session* in all depts., 7 weeks; Director.

IOWA, STATE UNIV. OF (founded 1855), Iowa City. *President*: W. A. Jessup, Ph.D. *Deans of Colleges*: Liberal Arts—G. F. Kay, Ph.D.; Law—H. C. Jones, S.J.D.; Medicine—L. W. Dean, M.S., M.D, F.A.C.S.; Dentistry—F. T. Breene, D.D.S, M.D; Pharmacy—W. J. Teeters, M.S., Ph.C.; Graduate College—C. E. Seashore, Ph.D.; Applied Sc.—W. G. Raymond, C.E., LL.D., Eng.D; Education—P. C. Packer, Ph.D.; Commerce—C. A. Phillips, Ph.D. Principal, School of Nursing—..... Director, School of Music—P. G. Clapp, Ph.D.

Library: 270,000 vols. *Fees* for tuition, $130 p.a. *Halls of Residence*: $144 to $157 (single rooms); $99 to $112.50 (double). Board, $6 per week. *Teaching Staff*: 500. *Students*: 6734; Grad. 1341, Lib. Arts 3347, Com. 244, Law 213, Med. 433, Dent. 224, Phm. 123, App. Sc. 334, Nurs. 266, Music 214. *Summer Session* in all depts., 10 weeks, 2632 students; address, Registrar.

JOHNS HOPKINS (founded 1876), Baltimore, Maryland. *President*: Frank Johnson Goodnow, LL.D. *Deans of Faculties*: Medical—L. H. Weed, M.D.; Engin.—J. B. Whitehead, Ph.D.; College—J. S. Ames, LL.D.; Dir., College Courses for Teachers—E. F. Buchner, Ph.D.; Dir., Hygiene and Pub. Health—W. H Welch, M.D. Walter Hines Page *School of International Relations* (Fundamental Bases, History, Law, Practice and Procedure, Organizations).

Libraries: 266,637 vols *Fees* for tuition: Undergraduate, $250 p.a.; Graduate, $150 p.a. *Teaching Staff*: 394. *Students*: 3822; Arts and Sc. grad. 349, College 456, Med. 494, Hyg. 134, Eng 274, Teachers 1236, Business Economics, 66. *Summer Session* in all depts., 5 weeks, 812 students; Director.

KANSAS, UNIV. OF (1866), Lawrence, Kansas (State Univ.). *Chancellor*: E. H. Lindley, Ph.D. *Deans of Schools*: Graduate School—E. B. Stouffer, Ph.D.; Sch. of Engineering—P. F. Walker, M.M.E.; Law—H. W. Arant, LL.B.; Fine Arts—D. M. Swarthout; Pharmacy—.....; Medicine—H. R. Wahl, M.D.; Education—(acting) R. A. Schwegler; College of Liberal Arts and Sc.—J. G. Brandt, Ph.D.; Business—F. R. Stockton, Ph.D.

Library: 167,500 vols., 1500 periodicals. *Fees*: Incidental, $30 p.a *Living Expenses* in Lawrence (average): room, $10 p.m. Board, $6.50 per week. *Teaching Staff*: 262 *Students*: 3950; Grad. 236, Coll. 2797, Eng. 1410, Art 926, Law 256, Phm. 180, Med. 278, Ed. 1296. *Summer Session* in all depts., 9 weeks, 1495 students; Director.

MICHIGAN, UNIV. OF (1837), Ann Arbor, Mich. (State Univ.). *President*: C. C. Little, S.D. *Deans*: Coll. of Lit., Sc., and Arts—J. R. Effinger, Ph.D.; Colls. of Engin. and Archit.—M. E. Cooley, LL.D.; Medical Sch.—H. Cabot, M.D.; Law School—H. M. Bates, Ph.B.; College of Pharmacy—E. H. Kraus, Ph.D., Sc.D., Coll. of Dental Surgery—M. L. Ward, D.D.Sc.; Sch. of Educn.—A. S. Whitney,

LL.D.; Graduate Sch.—A. H. Lloyd, Ph.D.; Bus. Adm.—E. E. Day, Ph.D.

Libraries: 570,806 vols, 2883 periodicals. *Fees* for tuition: men, $110; women, $105 p.a. *Teaching Staff*: 633. *Students*: 10,506; Sc. and Arts 6020, Eng. 1951, Med. 602, Law 497, Phm. 80, Dent. 362, Ed. 374, Grad. 709; Tr. Sch. for Nurses 168. *Summer Session* in all depts., 7 weeks, 3079 students; Secretary.

MINNESOTA, UNIV. OF (1868), Minneapolis, Minn. (State Univ.). *President*: L. D. Coffman, Ph.D. *Deans*: College of Sc., Lit., and Arts—J. B. Johnson, Ph D.; Coll. of Engin. and Archit. and Sch. of Chem.—O. M. Leland, B.S., C.E.; Dept. of Agric.—W. C. Coffey, M.S.; Coll. of Agric., Forestry, and Home Econ.—E. M. Freeman, Ph.D.; Law Sch.—E. Fraser, LL.B.; Medical Sch.—E. P. Lyon, Ph.D., M.D.; Coll. of Dentistry—A. Owre, M.D., C.M., D.M.D.; Sch. of Mines—W. R. Appleby, M.A.; Coll. of Pharmacy—F. J. Wulling, Phm.D., LL.M.; Coll. of Educn.—M. E. Haggerty, Ph.D.; Graduate Sch.—G. S. Ford, Ph.D.; Sch. of Business—G. W. Dowrie, Ph.D.

Library: 395,000 vols. *Fees* per quarter for tuition: Coll. of Sc., Lit., and Arts, $30; Graduate Sch., $10. *Living Expenses* in Minneapolis: Rooms, $9 to $15 p.m. (double); $12 to $18 (single). Board, $5 to $8 per week. *Teaching Staff*. 951. *Students*: 10,034; Arts and Sc. 4059, Eng. 1300, Ag. etc. 798, Law 280, Med. 514, Dent. 404, Mines 103, Phm. 141, Ed. 1411, Grad. 947, Bus. 284. *Summer Session* in all depts., 11 weeks, 4563

MISSOURI, UNIV. OF (1839), Columbia, Mo. (State Univ.). *President*: S. D. Brooks, LL.D. *Deans*: Arts and Sc.—F. M. Tisdel; Educn.—M. G. Neale, Ph.D.; Business and Public Admn.—I. Loeb, M.S., LL.B., Ph.D.; Law—J. P. McBaine, LL.B.; Engineering—E. J. McCaustland, C.E., M.C.E.; Graduate Faculty—W. Miller, LL.D.; Agric.—F. B. Mumford, B.S., M.S.; Medicine—G. L. Noyes, M.D.; Journalism—W. Williams, LL.D.; Director of Sch. of Mines and Metallurgy—C. H. Fulton, E.M., D.Sc.

Library: 220,000 vols., 25,000 pamphlets, 2000 periodicals. *Fees* for tuition, $10 per term. Graduate work only in Graduate school free. Incidental Fee, $25 per term. *Living Expenses* in Columbia: Board, $5 to $8 per week. Room, $36 to $50 per semester. *Teaching Staff*: 289. *Students*: 5531; Agr. 528, Arts and Sc. 2355, Bus. 173, Ed. 868, Eng. 492, Grad. 506, Journ. 250, Law 120, Med. 82, Min. 399. *Summer Session* in all depts., 8 weeks; Director.

NEBRASKA, UNIV. OF (1869), Lincoln, Neb. (State Univ.). *Chancellor*: S. Avery, Ph.D., LL.D.; *Deans of Colleges*: The Graduate Coll.—L. A. Sherman, Ph.D., LL.D.; Agric.—E. A. Burnett, D.Sc.; Medicine—J. J. Keegan, M.D.; Pharmacy—R. A. Lyman, A.M., M.D.; Engin.—O. J. Ferguson, M.E.E.; Arts and Sc.—H. G. James, Ph.D.; Business Admn.—J. E. Le Rossignol, Ph.D.; Dentistry—G. A. Grubb, D.D.S.; Law—W. A. Seavey, LL.B.; Teachers' College—W. E. Sealock, Ph.D.; Director of Sch. of Fine Arts—P. H. Grummann, A.M.; of Nursing—Charlotte Burgess; of Journalism—M. M. Fogg; Prin. of Sch. of Agric.—H. E. Bradford, A.M.

Library: 190,000 vols. *Fees*: Incidental Fee, $5 per semester. Tuition, $30 p.a. *Living Expenses* in Lincoln: Rooms, $8 to $15 p.m. Board, $6 per week. *Teaching Staff*: 337. *Students*: 9400; Grad. 675, Agr 519, Arts and Sc. 3034, Art 439, Jour. 113, Bus. 995, Dent. 90, Eng. 678, Law 207, Med. 450, Nurs. 61, Phm. 200, Teachers 2718. *Summer Session* in all depts., 10 weeks.

NORTH CAROLINA, UNIV. OF (founded in 1789), Chapel Hill, N.C. *President*: H. W. Chase, Ph.D., LL.D. *Deans*: College of Liberal Arts—J. F. Royster, Ph.D.; Schools of Applied Science—(acting) A. H. Patterson, A.M. Education—N. W. Walker, Ed M. (acting); Commerce—D. de Witt Carroll, M A., Law—(actg) M. L. Ferson, LL.B.; Med.—I. H Manning, M.D, Pharmacy—E. V. Howell, A.B., Ph.G.; Engineering—G. M. Braune, C.E.; Graduate School—E. Greenlaw, Ph.D. Director of School of Public Welfare—H. W. Odum, Ph.D.

Libraries: 139,800 vols., 1005 current periodicals. *Fees*: Tuition, $20 per quarter; Matriculation, $12 per quarter. *Halls of Residence*, $5 to $9.50 a month. Board, $22 a month. *Teaching Staff*: 135. *Students*: 2359; Grad. 108, Undergrad. 1843, Law 129, Med. 71, Phm. 108. *Summer School* in all depts., 12 weeks, 1492 students; Director.

NORTHWESTERN (founded 1855), Evanston, Ill. *President*: Walter Dill Scott, Ph.D., LL.D. *Deans of Schools*: Graduate School—J. A. James, Ph.D., LL.D.; Medical—J. P. Simonds, M.D.; Law—J. H. Wigmore, M.A., LL.B., LL.D.; Dental—A. D. Black, M.A., M.D., D.D.S., D.Sc.; Music—P. C. Lutkin, Mus.D., A.G.O.; Commerce—R. E. Heilman, Ph.D.; Speech—R. B. Dennis, M.A.; College of Liberal Arts—R. A. Kent, Ph.D.; Coll. of Engineering (Director)—W. C. Bauer, B.S., Sc.D. (actg.); Educn. (Dir)—E. E. Jones, Ph.D.; Medill School of Journalism (Dir.)—H. F. Harington, M.A.

Library: 154,776 vols.; 119,410 pamphlets. *Fees* for tuition: Undergraduate, $112.50 per semester; Graduate not more than $125 p.a. *Halls of Residence*: $115 to $200 p.a. *Teaching Staff*: 643. *Students*: 8808; Lib. Arts 2132, Grad. 360, Med. 536, Law 243, Eng. 169, Dent. 227, Mus. 487, Com. 4216, Jour. 336, Speech 274. *Summer Session* in all depts., 8 weeks, 1328 students; Director.

OHIO STATE UNIV. (founded 1870), Columbus, Ohio. *President*: Wm. Oxley Thompson, D.D., LL.D. *Deans of Colleges*: Agriculture—A. Vivian, Ph.G.; Arts, Philos., and Sc.—W. E. Henderson, A.M., Ph.D.; Commerce and Journalism—J. E. Hagerty, Ph.D.; Education—G. F. Arps, A.M., Ph.D.; Engineering—E. A. Hitchcock; Graduate School—W. McPherson, M.Sc., D.Sc., Ph.D.; Dent.—H. M. Semans; Law—John J. Adams; Med.—E. F. McCampbell; Pharm.—C. A. Dye; Vet. Med.—D. S. White.

Library: 257,000 vols. *Fees* for tuition: $35 per quarter; Incidental, $15 per quarter. *Living Expenses*: Furnished rooms, $10 to $15 p.m. Board, $6.50 to $8 per week. *Teaching Staff*: 569. *Students*: 8583; Grad. 488, Agr. 1063, Arts 2999, Com., etc. 608, Dent. 173, Ed. 1004, Eng. 1408, Law 238, Med. 313, Phm. 281, Vet. 83. *Summer Quarter* in all depts., 10 weeks, 1953 students.

PENNSYLVANIA, UNIVERSITY OF (founded 1740), Philadelphia, Pa. *Provost*: J. H. Penniman, Ph.D., LL.D. *Deans of Faculties*: College —R. B. Burke, A.M.; Towne Scientific Sch.—J. Frazer, Ph.D.; Wharton Sch.—E. R. Johnson, Ph.D., Sc.D.; Educn.—J. H. Minnick, Ph.D.; Fine Arts—W. P. Laird, Sc.D.; Graduate Sch.—H. V. Ames, Ph.D.; Medicine—W. Pepper, M.D.; Law—W. E. Mikell, LL.D.; Dentistry—C. R. Turner, M.D.; Vet. Med.—L. A. Klein, V.M.D.; Graduate Sch. of Med.—G. H. Meeker, Ph.D., LL.D.; Elec. Engin.—H. Pender, Ph.D.

Libraries: 579,000 vols., 60,000 pamphlets. *Fees* for tuition: $275. *Halls of Residence*: Board and lodging from $380 p.a. *Teachers*: 1203. *Students*: 14,173; College 1173, Educn. 1254, Towne 299, El. Eng. 154, Wharton (Commerce) 2573, Art 344, Teachers courses 1066, Grad. 1393, Law 368, Med. 606, Dent. 432, Vet. 56 *Summer School* in nearly all depts., 6 weeks, 2024 students; Director—Ev. Sch. of Finance and Com. 2241; Extension 2203.

PRINCETON (founded in 1747), Princeton, N.J. *President*: J. G. Hibben, Ph.D., LL.D., Litt.D. *Deans*: Graduate School—A. F. West, Ph.D., LL.D.; Depts. of Science—H. B. Fine, Ph.D., LL.D.; Faculty—W. F. Magie, Ph.D., LL.D.; College—H. McClenahan, LL.D.; Sch. of Engin.—A. M. Greene, D.Sc.

Libraries: 587,106 vols., 109,714 periodicals and pamphlets. *Fees* for tuition: $400. *Halls of Residence*: $165 to $330 p.a. Board, $288 p.a. *Teachers*: 234. *Students*: 2373; Grad. 195, Undergrad. 2084.

STANFORD (founded 1891), California. *President*: Ray Lyman Wilbur. *Deans*: School of Educn.—E. P. Cubberley; Law Sch.—M. R. Kirkwood; Sch. of Medicine—W. Ophuls; Graduate Study—E. C. Franklin.

Libraries: 370,000 vols. *Fees* per quarter for tuition: Undergraduate, $75; Graduate, $50; Incidental (undergrads.), $20 per quarter. *Halls of Residence*: $18.50 to $36 per quarter. Board, $30. *Teaching Staff*: 388. *Students*: 3655; Grad. 861, Undergrad. 2725. *Summer Quarter* in all depts., 10 weeks, 936 students; Registrar.

UNIVERSITY OF VIRGINIA (founded in 1819), Charlottesville, Va. (State Univ.). *President*: E. A. Alderman, D.C.L., LL.D. *Deans of Departments*: Univ. and College—J. M. Page, Ph.D., LL.D.; Graduate Sch.—J. C. Metcalf, Litt.D., LL.D.; Law—W. M. Lile, LL.D.; Med.—J. C. Flippin, M.D. (actg.); Engin.—W. M. Thornton, LL.D.; Educn. —J. L. Manahan, Ph.D.

Libraries: 90,000 vols. *Fees* per annum: University, $60; tuition, $160. *Halls of Residence*: $60 to $95 p.a. Board, $200 to $300 p.a. *Teaching Staff*: 100. *Students*: 1950; College 1100, Grad. 192, Ed. 90, Eng. 127, Law 227, Med. 214. *Summer Quarter* in all depts., 11 weeks, 2301 students; Dean.

WASHINGTON UNIVERSITY (founded in 1853), St. Louis, Missouri. *Chancellor*: H. Spencer Hadley, LL.D. Dean of the College of Liberal Arts—G. O. James, Ph.D.; Schools of Engin. and Archit.—W. E.

McCourt, A.M.; of Commerce and Finance—L. S. Lyon, Ph.D.; Henry Shaw School of Botany—G. T. Moore, Ph.D., Engelmann, Prof.; Graduate Studies—Otto Heller, Ph.D.; Dean of the School of Law—R. L. Goode, LL.D.; of Med.—McKim Marriott, M.D.; of Dent.—W. M. Bartlett, D.D.S.; Director of School of Fine Arts—E. H. Wuerpel.

Library: 234,926 vols., 84,948 pamphlets. *Fees*: Tuition, $200 a year in the Coll. of Liberal Arts, $100 a year in the School of Graduate Studies. *Halls of Residence*: $30 to $75 a quarter. Board not less than $7 a week. *Teaching Staff*: 506. *Students*: 5885; College 1412, Eng. 355, Archit. 85, Com. and Fin. 250, Graduate 113, Law 203, Med. 482, Dent. 52, Fine Arts 466, Univ. Extension 2300. No *Summer School*.

WISCONSIN, UNIV. OF (1849), Madison, Wis. (State Univ.). *President*: G. Lenn-Frank, Litt.D *Deans of Colleges*: Letters and Sc.—G. C. Sellery, Ph.D., LL.D.; Engineering—F. E. Turneaure, C.E., Dr.Engr.; Agric.—H. L. Russell, Ph.D.; Law School—H. S. Richards, Ph.B., LL.B., LL.D.; Medical Sch.—C. R. Bardeen, M.D.; Graduate Sch.—C. S. Slichter, Sc.D.

Library: 721,000 vols., 375,000 pamphlets. *Fees* per semester: for tuition, $62; Incidental, $15.50. *Living Expenses* in Madison: Room, $4 to $6 a week (single), $3 to $5 (double). Board, $6.50 to $9 a week. *Teaching Staff*: 1093. *Students*: 8142; Grad. School of Arts and Sc. 885, Coll. of Eng. 1080, Agr. 747, Med. 167, Law 240. Undergrads. in Arts and Sc. 5942. *Summer Session* in all depts., 6 weeks, 3466 students; Director.

YALE (founded 1701), New Haven, Conn. *President*: J. R. Angell, Litt.D., LL.D. *Deans of Schools*: Graduate School—W. L. Cross, Ph.D., Litt.D.; Med.—M. C. Winternitz, M.D.; Divinity—Rev. C. R. Brown, LL.D.; Law—T. W. Swan, M.A.; Fine Arts—E. V. Meeks, A.D.G.F., M.A.; Music—D. S. Smith, Mus.D.; Forestry—H. S. Graves, M.A.; Yale College—F. S. Jones, LL.D.; Sheffield Scientific School—C. H. Warren, Ph.D.

Libraries: 1,600,000 vols., 11,000 periodicals. *Fees* for tuition: Undergraduate, $300; Graduate, $200 p.a. *Halls of Residence*: $110 to $330 p.a. Board, $8.50 per week. *Teaching Staff*: 926. *Students*: 4415; Grad. 1058, College 1408, Sheff. 108, Med. 186, Div. 194, Law 398, Mus. 109, For. 33, Fine Arts 148. *Summer Session* in Law, Forestry, and Engin. Fieldwork, 10 weeks.

XXVI

[*This Appendix can be obtained in pamphlet form from the Universities Bureau, free of charge.*]

PROFESSIONAL SCHOOLS, SPECIALIST STUDIES, AND POST-GRADUATION COURSES IN THE UNIVERSITIES AND UNIVERSITY COLLEGES OF GREAT BRITAIN AND IRELAND

PREFATORY NOTE

THE Universities, collectively, make provision for the advancement of all branches of knowledge. Of their several fields of study the greater part is common ground, yet each of them has its special plots which it cultivates, in some cases with a view to the needs of the province which it serves, in others because it has been agreed, or arranged, that it shall undertake work for which there is but a limited demand.

The statements which follow indicate the respects in which the Universities, individually, specialize, *i.e.* undertake work which is not common to them all. The term "school" is applied to correlated courses of study for a particular profession. "Specialist courses" are courses of study in special subjects for which provision is not generally made.

For further information application should be made to the Registrars or Secretaries (Birmingham, London Colleges and Schools, Aberdeen, Edinburgh, St. Andrews, Belfast) of the several Universities and Colleges.

DISTRIBUTION OF GROUPS OF SUBJECTS

SCHOOLS OF THEOLOGY

CAMBRIDGE; DURHAM; LONDON, [New and Hackney Coll., Hampstead (Congregational), Regent's Park Coll. (Baptist), King's Coll. Theological Department (Church of England), Wesleyan Coll., Richmond, St. John's Hall, Highbury (Church of England)]; MANCHESTER; OXFORD; WALES, [Univ. Coll., Bangor (Baptist Coll., Bangor, Independent Coll., Bangor, Church Hostel, Bangor), The Associated Theological Colls.]. ABERDEEN; EDINBURGH; GLASGOW; ST. ANDREWS. TRINITY COLLEGE, DUBLIN; NATIONAL OF IRELAND, [St. Patrick's Coll., Maynooth].

SCHOOLS OF LAW

CAMBRIDGE; LEEDS; LIVERPOOL; LONDON, [University Coll., King's Coll. and the School of Economics, jointly]; MANCHESTER; OXFORD; SHEFFIELD; WALES, [Univ. Coll., Aberystwyth]. ABERDEEN; EDINBURGH; GLASGOW. BELFAST; TRINITY COLLEGE, DUBLIN; NATIONAL OF IRELAND, [Univ. Colls. of Dublin, Cork, and Galway].

Courses in Law meeting the requirements of the Solicitors Act, 1922, are provided by all Univs. and Colls. in England and Wales, with the exception of University Coll., Reading.

SCHOOLS OF MEDICINE

BIRMINGHAM; BRISTOL; CAMBRIDGE; DURHAM, [College of Medicine, Newcastle]; LEEDS; LIVERPOOL; LONDON, [St. Bartholomew's Hospl., St. Thomas's Hospl., Westminster Hospl., Guy's Hospl., St. George's Hospl., London Hospl., Middlesex Hospl., Charing Cross Hospl., London (Royal Free Hospl.) Sch. of Med. for Women, University Coll. and University Coll. Hospl., King's Coll. and King's Coll. Hospl., St. Mary's Hospl., London School of Tropical Med., Lister Institute of Preventive Med., Bethlem Royal Hospl. (Mental), Maudsley Hospl. (Mental), Royal Army Medical Coll., Royal Naval Coll. (Greenwich)]; MANCHESTER; OXFORD; SHEFFIELD; WALES, [Welsh National School of Med., Cardiff]. ABERDEEN; EDINBURGH; GLASGOW; ST. ANDREWS. BELFAST; TRINITY COLLEGE, DUBLIN; NATIONAL OF IRELAND, [Univ. Colls. of Dublin, Cork, and Galway].

SCHOOLS OF DENTAL SCIENCE

BIRMINGHAM; BRISTOL; DURHAM, [College of Medicine, Newcastle, and Newcastle Dental Hospl.]; LEEDS; LIVERPOOL; LONDON, [St. Bartholomew's Hospl., Westminster Hospl., Guy's Hospl., St. George's Hospl., London Hospl., Middlesex Hospl., Charing Cross Hospl., King's Coll. and King's Coll. Hospl., St. Mary's Hospl., London School of Dental Surgery, University Coll. Medical School, Dental Department]; MANCHESTER; SHEFFIELD. BELFAST; TRINITY COLLEGE, DUBLIN; NATIONAL OF IRELAND, [Univ. Colls. of Dublin and Cork].

SCHOOLS OF VETERINARY SCIENCE

LIVERPOOL; LONDON, [Royal Veterinary Coll.]. EDINBURGH, [Royal (Dick) Veterinary Coll.].

SCHOOL OF PHARMACY

GLASGOW [Royal Technical Coll.].; LONDON, [School of Pharmacy]; MANCHESTER; Univ. Coll., Exeter, Univ. Coll., Nottingham.

SCHOOLS OF MUSIC

BIRMINGHAM; CAMBRIDGE; LONDON, [Royal Academy, Royal College, Trinity College]; MANCHESTER, [Royal Manchester Coll. of Music]; OXFORD; WALES, [Univ. Colls. of Aberystwyth and Cardiff]; Univ. Coll., Nottingham; Univ. Coll., Reading; Univ. Coll., Southampton. EDINBURGH. TRINITY COLLEGE, DUBLIN; NATIONAL OF IRELAND, [Univ. Colls. of Dublin and Cork].

SCHOOLS OF ART

DURHAM, [Armstrong Coll.]; LONDON, [University Coll.—Slade School, Goldsmiths' Coll.]; OXFORD; Univ. Coll., Reading. ABERDEEN; EDINBURGH.

Art of the Theatre. LONDON, [East London Coll.].

Civic Art and Design, and Town Planning. BIRMINGHAM, LIVERPOOL; LONDON, [University Coll.—Bartlett School]; SHEFFIELD.

Arts and Crafts. WALES, [Univ. Coll., Aberystwyth]; Univ. Coll., Reading.

SCHOOLS OF ARCHITECTURE

CAMBRIDGE; DURHAM, [Armstrong Coll.]; LIVERPOOL; LONDON, [Univ. Coll.—Bartlett School], MANCHESTER; SHEFFIELD. BELFAST, [Municipal Coll. of Technology]; NATIONAL OF IRELAND, [Univ. Coll., Dublin].

Naval Architecture and Marine Engineering. DURHAM, [Armstrong College]; LIVERPOOL. GLASGOW. BELFAST.

SCHOOL OF JOURNALISM

LONDON, [University Coll., King's Coll. and School of Economics, jointly].

SCHOOL OF LIBRARIANSHIP

LONDON, [University Coll.].

SCHOOLS OF COMMERCIAL SCIENCE

BIRMINGHAM; DURHAM, [Armstrong Coll.]; LIVERPOOL; LONDON, [School of Economics]; MANCHESTER; Univ. Coll., Nottingham; Univ. Coll., Reading; Univ. Coll., Southampton. ABERDEEN; EDINBURGH. BELFAST; Trinity Coll., Dublin; NATIONAL OF IRELAND, [Univ. Colls. of Dublin, Cork, and Galway].

SCHOOLS OF ENGINEERING (v. also Schools of Architecture)

All English Universities; Univ. Colls. of Cardiff, Swansea, Nottingham, and Southampton. EDINBURGH; GLASGOW; ST. ANDREWS, [Univ. Coll., Dundee]. BELFAST, [Municipal Coll. of Technology]; TRINITY COLLEGE, DUBLIN; NATIONAL OF IRELAND, [Univ. Colls. of Dublin, Cork, and Galway].

SCHOOLS OF METALLURGY

BIRMINGHAM; CAMBRIDGE; DURHAM, [Armstrong Coll.]; LEEDS; LIVERPOOL; LONDON, [Imperial Coll.]; MANCHESTER; SHEFFIELD (*including Non-ferrous Metals*); WALES, [Univ. Colls. of Cardiff and Swansea]; GLASGOW, [Royal Technical Coll.].

SCHOOLS OF MINING

BIRMINGHAM; DURHAM [Armstrong Coll.]; LEEDS; LONDON, [Imperial Coll.]; MANCHESTER; SHEFFIELD; WALES, [Univ. Coll., Cardiff]; Univ. Coll., Nottingham. EDINBURGH, [Heriot-Watt Coll.]; GLASGOW, [Royal Technical Coll.].

Mining and Technology of Petroleum. BIRMINGHAM; LONDON, [Imperial Coll.].

Mining Geology. LONDON, [Imperial Coll.].

SCHOOLS OF AGRICULTURE, FORESTRY, HORTICULTURE, AND ESTATE MANAGEMENT

BRISTOL, [Royal Agric. Coll., Cirencester and National Fruit and Cider Institute, Long Ashton]; CAMBRIDGE; DURHAM, [Armstrong Coll.]; LEEDS; LONDON, [Rothamsted-Lawes Agricultural Trust, South-Eastern Agricultural Coll., Wye]; OXFORD; WALES, [Univ. Colls. of Aberystwyth and Bangor]; Univ. Coll., Nottingham [in conjunction with Midland Agric. Coll.]; Univ Coll, Reading. ABERDEEN; EDINBURGH; GLASGOW, [West of Scotland Agricultural Coll.]; NATIONAL UNIVERSITY OF IRELAND, [Univ. Coll., Dublin].

Tropical Agriculture. CAMBRIDGE.

Forestry. CAMBRIDGE; OXFORD; WALES, [Univ. Coll., Bangor]. ABERDEEN; EDINBURGH; NATIONAL UNIVERSITY OF IRELAND [Dublin].

Horticulture. CAMBRIDGE; Univ. Coll., Reading; NATIONAL UNIVERSITY OF IRELAND [Dublin].

Dairying. Univ. Coll., Reading.

SCHOOLS OF EDUCATION AND TRAINING COLLEGES

All Universities and University Colleges.

Training of Teachers for the Deaf. MANCHESTER.

SUBJECTS OF STUDY TO WHICH EXCEPTIONAL ATTENTION IS GIVEN IN CERTAIN OF THE UNIVERSITIES AND UNIVERSITY COLLEGES

(The omission of the name of a University or College from under any of the following subject-headings is not to be taken as an indication that the subject is not studied.)

Subjects generally provided for in Schools of Theology, Law, Medicine, etc., or ordinarily recognized as branches of the following departments of knowledge, are omitted from these lists, viz.: Economics, English Language and Literature; History, ancient, mediæval, and modern; Logic; Mathematics; Philology; Philosophy, mental and moral; Phonetics; Anatomy, human and comparative; Botany; Biology; Chemistry, inorganic, organic, physical, physiological (biochemistry), technical; Embryology; Geography; Geology; Histology; Mineralogy; Morphology; Palæontology; Pathology; Physics; Physiology; Psychology; Zoology.

ARTS

Anthropology, including Primitive Technology and Archæology: BIRMINGHAM; CAMBRIDGE; LONDON, [University Coll.]; OXFORD. EDINBURGH. NATIONAL OF IRELAND, [Univ. Coll., Dublin]. (Vide also Ethnology.)

Archæology, Assyrian and Babylonian: LIVERPOOL; LONDON, [University Coll., King's Coll.]; OXFORD.

„ *Celtic*: NATIONAL OF IRELAND, [The Univ. Colls.].

„ *Central American*: LIVERPOOL.

„ *Classical*: CAMBRIDGE; LIVERPOOL; LONDON, [University Coll.], OXFORD.

„ *Cretan*: Oxford.

„ *Egyptian*: LIVERPOOL; LONDON, [University Coll.]; MANCHESTER; OXFORD.

„ *Numismatics*: CAMBRIDGE; LIVERPOOL; OXFORD.

Astronomy: CAMBRIDGE; LIVERPOOL; LONDON, [Univ. Coll.]; OXFORD. EDINBURGH; GLASGOW.

Astro-physics: CAMBRIDGE; LONDON, [Imperial Coll.].

History, American: OXFORD.

„ *British Dominions*: CAMBRIDGE; LONDON, [King's College]; MANCHESTER; OXFORD; WALES, [Univ. Coll., Aberystwyth]; EDINBURGH.

„ *Byzantine*: LONDON, [King's Coll.]; OXFORD.

„ *Central European*: LONDON, [King's Coll.].

„ *French, and Institutions*: CAMBRIDGE; LONDON; MANCHESTER.

„ *Indian, and Economics*: CAMBRIDGE; LONDON, [School of Oriental Studies]; OXFORD. EDINBURGH.

„ *Irish*: MANCHESTER. NATIONAL OF IRELAND, [The Univ. Colls.].

„ *of London*: LONDON, [University Coll.].

„ *Military*: OXFORD; LONDON, [University Coll.].

„ *Naval*: CAMBRIDGE.

„ *Russian*: LIVERPOOL; LONDON, [King's Coll.].

„ *Scottish*: EDINBURGH; GLASGOW.

„ *Welsh*: WALES [Univ. Coll., Bangor].

Palæography, Diplomatic and Papyrology, Bibliography: CAMBRIDGE; LIVERPOOL; LONDON, [University and King's Colls.]; MANCHESTER; OXFORD. EDINBURGH.

Poetry: OXFORD.

Political Science: CAMBRIDGE; LONDON, [School of Economics]; OXFORD; WALES, [Univ. Coll., Aberystwyth]. EDINBURGH; GLASGOW.

Public Administration and Finance: LONDON, [School of Economics]; MANCHESTER.

Public Reading and Speaking: DURHAM. ABERDEEN; EDINBURGH.

Solar Physics: CAMBRIDGE.

LANGUAGES AND LITERATURE (omitting those which are studied in the large majority of Universities and Colleges, viz., Hebrew including Aramaic and Syriac, Greek, Latin, French, German, Italian, Russian, and Spanish).

Amharic: LONDON, [School of Oriental Studies].

Anglo-Saxon: CAMBRIDGE; LONDON, [Univ. Coll.]; OXFORD. TRINITY COLLEGE, DUBLIN.

Arabic: BRISTOL; CAMBRIDGE; LONDON, [School of Oriental Studies]; MANCHESTER; OXFORD. EDINBURGH; GLASGOW. TRINITY COLLEGE, DUBLIN.

Armenian: LONDON, [School of Oriental Studies].

Assamese: LONDON, [School of Oriental Studies].

Bantu: CAMBRIDGE; LONDON, [School of Oriental Studies].

Bengali: CAMBRIDGE; LONDON, [School of Oriental Studies]; OXFORD.

Burmese: CAMBRIDGE; LONDON, [School of Oriental Studies]; OXFORD.

Celtic: LONDON, [University Coll.]; OXFORD. ABERDEEN; EDINBURGH; GLASGOW. BELFAST; TRINITY COLLEGE, DUBLIN.

Chinese: CAMBRIDGE; LIVERPOOL; LONDON, [School of Oriental Studies]; MANCHESTER; OXFORD.

Danish, v. Scandinavian.

Dravidian Languages: LONDON, [School of Oriental Studies].

Dutch: LONDON, [Univ. Coll. and Bedford Coll., jointly].

Ethiopic: LONDON, [School of Oriental Studies].

Greek, Byzantine, and Modern: OXFORD; LONDON, [King's Coll.].

Gujerati: LONDON, [School of Oriental Studies].

Hausa: CAMBRIDGE; LONDON, [School of Oriental Studies].

Hindustani: CAMBRIDGE; LONDON, [School of Oriental Studies]; OXFORD. TRINITY COLLEGE, DUBLIN.

Icelandic, v. Scandinavian.

Irish: TRINITY COLLEGE, DUBLIN; NATIONAL OF IRELAND, [The Univ. Colls.].

Japanese: LONDON, [School of Oriental Studies].

Kashmiri: LONDON, [School of Oriental Studies].

Malay: LONDON, [School of Oriental Studies].

Marathi: CAMBRIDGE; LONDON, [School of Oriental Studies].

Melanesian: LONDON, [School of Oriental Studies].

Nepali: LONDON, [School of Oriental Studies].

Norwegian, v. Scandinavian.

Pali: CAMBRIDGE; LONDON, [School of Oriental Studies].

Persian: CAMBRIDGE; LONDON, [School of Oriental Studies]; OXFORD. TRINITY COLLEGE, DUBLIN.

Polynesian: LONDON, [School of Oriental Studies].

Portuguese: CAMBRIDGE; LONDON, [King's College]; Univ. Coll., Nottingham.

Rhæto-Romance: CAMBRIDGE.

Rumanian: CAMBRIDGE; LONDON, [King's College].

Sanskrit: CAMBRIDGE; LONDON, [School of Oriental Studies]; OXFORD; EDINBURGH. TRINITY COLLEGE, DUBLIN.

Scandinavian Languages—Danish, Norwegian, Swedish, Icelandic: CAMBRIDGE; LONDON, [University Coll.]; OXFORD.

Siamese: LONDON, [School of Oriental Studies].

Sinhalese, Tamil, and Telugu: CAMBRIDGE; LONDON, [School of Oriental Studies]; OXFORD.

Slavonic Languages, other than Russian: CAMBRIDGE; LONDON, [King's Coll.]; Univ. Coll., Nottingham.

Slavonic Philology, Comparative: LONDON, [King's Coll.].

Swahili: CAMBRIDGE; LONDON, [School of Oriental Studies].

Swedish, v. Scandinavian.

Talmudic: CAMBRIDGE.

Tibetan: LONDON, [School of Oriental Studies].

Turkish: CAMBRIDGE; LONDON, [School of Oriental Studies].

Welsh: LIVERPOOL; WALES, [the 4 Univ. Colls.].

Yoruba: LONDON, [School of Oriental Studies].

Comparative Philology: CAMBRIDGE; LONDON, [University Coll., King's Coll., School of Oriental Studies]; OXFORD. ABERDEEN; EDINBURGH; GLASGOW. TRINITY COLLEGE, DUBLIN.

Imperial Latin: MANCHESTER.

Phonetics: LONDON, [University Coll.].

SCIENCE, APPLIED SCIENCE, COMMERCE, SOCIOLOGY

Aero-dynamics: LONDON, [Imperial Coll.].

Animal Pathology: CAMBRIDGE; LONDON [R. Vet. Coll.].

Aviation and Aero-Engineering: CAMBRIDGE; LONDON, Imperial Coll., East London Coll. GLASGOW.

Colloidal Chemistry: BRISTOL; MANCHESTER.

Cytology: LIVERPOOL.

Economic Entomology: LIVERPOOL; LONDON, [Imperial Coll.]. EDINBURGH.

Ethnology and Social Anthropology: CAMBRIDGE; LONDON, [University Coll., School of Econ.]; OXFORD.

Eugenics: LONDON, [University Coll.].

Genetics: CAMBRIDGE; OXFORD. EDINBURGH.

Geodesy: CAMBRIDGE.

Meteorology: CAMBRIDGE; LONDON, [Imperial Coll.]; OXFORD.

Military Science: BRISTOL; CAMBRIDGE; DURHAM; LONDON; OXFORD; Univ. Coll., Nottingham.

Oceanography and Fisheries: LIVERPOOL; WALES, [Univ. Coll., Aberystwyth]. ABERDEEN.

Physiology of Animal Nutrition: CAMBRIDGE. ABERDEEN.

Plant Pathology: LONDON, [Imperial Coll].

Protozoology: LONDON, [King's Coll., Lister Institute]. EDINBURGH; GLASGOW.

Psychology, Comparative: ABERDEEN.

,, *Experimental*: CAMBRIDGE; LONDON, [University Coll., King's Coll., Bedford Coll.]; MANCHESTER. EDINBURGH; GLASGOW.

,, *Industrial*: LONDON, [School of Economics]

Railway Economics: LONDON, [School of Economics]; MANCHESTER.

Spectroscopy: LONDON, [Imperial Coll., King's Coll.]; OXFORD

Statistics: CAMBRIDGE; LONDON, [University Coll., School of Economics]. ABERDEEN; EDINBURGH.

Sociology: LONDON, [School of Economics]; LIVERPOOL.

Social Study: BIRMINGHAM; BRISTOL; LEEDS; LIVERPOOL; LONDON, [School of Economics, Bedford Coll.]; OXFORD. WALES, [Univ. Coll., Cardiff]; Univ. Coll., Nottingham. EDINBURGH; GLASGOW; ST. ANDREWS, [Univ. Coll., Dundee].

Household Science: LONDON, [King's Coll. Household and Social Sci. Dept.]; WALES, [Univ. Coll., Cardiff]; Univ. Coll., Reading.

LAW

Law, International: CAMBRIDGE; LIVERPOOL; LONDON, [School of Economics]; OXFORD. ABERDEEN; EDINBURGH; GLASGOW.

,, *Commercial*: BIRMINGHAM; LIVERPOOL; LONDON, [School of Economics]. EDINBURGH; GLASGOW.

,, *Comparative*: LONDON, [University Coll.].

,, *Indian*: CAMBRIDGE; LONDON, [School of Oriental Studies]; OXFORD.

,, *Industrial*: BIRMINGHAM; LONDON [School of Economics].

,, *Roman-Dutch*: CAMBRIDGE; OXFORD; LONDON.

,, *Russian, and Economics*: LONDON, [King's Coll., School of Economics].

,, *Scots*: The Scottish Universities.

MEDICINE

Cancer Research: LONDON, [Middlesex Hospl.]; MANCHESTER. ABERDEEN.

History of Medicine: LONDON, [University Coll.]. EDINBURGH.

Medical Entomology: CAMBRIDGE.

Medical Statistics: LONDON, [University Coll.].

Parasitology and Helminthology: CAMBRIDGE; LIVERPOOL; LONDON, [School of Tropical Med.]. ABERDEEN; EDINBURGH.

Radiology and Electrology: CAMBRIDGE; LIVERPOOL.

Tropical Medicine: LIVERPOOL; LONDON, [Royal Army Med. Coll., School of Tropical Med.]. EDINBURGH.

Tropical Surgery: LONDON, [School of Tropical Med.].

Tuberculosis: WALES, [Univ. Coll., Cardiff]. EDINBURGH; GLASGOW.

TECHNOLOGY

Brewing: BIRMINGHAM.

Chemical Engineering: LONDON, [University Coll., Imperial Coll.].

Colour Chemistry, Bleaching, Dyeing: LEEDS; MANCHESTER; Univ. Coll., Nottingham. GLASGOW, [Royal Technical Coll.].

Economic Mineralogy: LONDON, [Imperial Coll.].

Electro-chemistry: MANCHESTER.

Electrotechnics: MANCHESTER; LONDON, [Imperial Coll.]. BELFAST, [Municipal Coll.].

Engineering, Automobile: BRISTOL.

,, *Dock and Harbour*: LIVERPOOL. TRINITY COLLEGE, DUBLIN.

,, *Marine*: DURHAM, [Armstrong Coll.]; LIVERPOOL. GLASGOW.

,, *Municipal and Sanitary*: LIVERPOOL; LONDON; MANCHESTER. GLASGOW.

,, *Railway*: LIVERPOOL; LONDON, [Imperial Coll.].

,, *Refrigeration*: LIVERPOOL.

,, *Water Supply and Irrigation*: MANCHESTER.

Fuel, Coal and Gas: LEEDS; LONDON, [Imperial Coll.]; MANCHESTER. [Coll. of Technology]; SHEFFIELD; Univ. Coll., Nottingham. GLASGOW.

Glass: SHEFFIELD.

Leather: LEEDS.

Optical Engineering and Applied Optics: LONDON, [Imperial Coll.].

Photography: MANCHESTER.

Rubber: LONDON, [Northern Polytechnic].

Sugar: GLASGOW, [Royal Technical Coll.].

Textiles: LEEDS; MANCHESTER; Univ. Coll., Nottingham. GLASGOW, [Royal Technical Coll.]. BELFAST, [Municipal Coll.].

Woods and Fibres: LONDON, [Imperial Coll.].

POST-GRADUATION AND SPECIALIST COURSES FOR THE SESSION 1925–26

UNIVERSITY OF BIRMINGHAM

A. Schools of *Brewing and the Bio-chemistry of Fermentation*; *Commercial Science*; *Dental Science*; *Education*; *Engineering*; *Law*;

Medicine; *Metallurgy*; *Mining*; *Music*; *Oil Engineering and Refining*; *Public Health Science*; *Theology*; and for the Trade Unions Industrial Certificate.

B. Post-graduation Courses leading to the Ph.D. or other higher degrees:

(i.) ARTS: *English*; *French*; *German*; *Greek*; *Italian*; *Latin*; *Russian*; *Spanish*; *History*; *Music*; *Philosophy*.

(ii.) COMMERCE: An approved selected subject.

(iii.) MEDICINE: An approved selected subject.

(iv.) SCIENCE: *Bio-chemistry of Fermentation*; *Botany*; *Chemistry*; *Engineering*; *Geology*; *Mathematics*; *Metallurgy*; *Mining*; *Physics*; *Zoology*.

C. Specialist Courses.

Anthropology (including primitive technology and archæology). A course of lectures, and practical instruction in the Museum of the Department, is given by the Professor of Anatomy and Anthropology throughout the Summer Term. *Brewing*: There is an Honours School in the *Bio-chemistry of Fermentation*, which subject may also be offered as a principal subject for the degree of B.Sc. Special subjects in the Honours School are: (i.) *Chemistry and Physiology of Malting, Brewing, Distilling and Vinegar Manufacture*; (ii.) *Fermentation* and *Bacteriology*; (iii.) *Agricultural Chemistry*; (iv.) *Chemistry of Food and Drugs*. *Civic Design and Town Planning*. A systematic course of lectures and class work is given, provided by the Bournville Village Trust. In the Winter Term instruction is given in Drawing-office and Field Work; in the Spring Term in problems in Site Planning, in which term special series of lectures are also delivered by authorities on various aspects of Town Planning. *Criminology*. A post-graduate course on "Crime and Punishment" is conducted during one term. Special demonstrations in connexion with the subject are given at local Prisons, Asylums and Mental Deficiency Colonies. *Hydro-electric Engineering*. Facilities are provided for students who desire to specialize in this subject. The B.Sc. degree may be taken with Honours in Hydro-electric Engineering. *Industrial Law*. A systematic course of lectures and tutorials is given in problems of Modern Industry, National and Local Government, etc., to students nominated by Trade Unions, who read for the Industrial Certificate awarded by the University. *Mental Diseases*. A special Department is established in connexion with the Asylums Committee of the City of Birmingham for research in Mental Diseases. The Department is under the direction of Sir Frederick Mott, F.R.S., who also has been appointed Lecturer in the Psychology of Medicine in the University. *Mine Rescue*. A special lecturer in the subject delivers a course of lectures; demonstrations in the Laboratory, and in the Model Mine in the grounds of the University are given during one term. The Watch Committee of the City of Birmingham requires the attendance on these courses of members of the City Fire Brigade. *Mining Research*. A department responsible for research in problems relating to Oil, Coal and Metal Mining is established under the direction

of Dr. J. Scott Haldane, F.R.S., who has been appointed an Honorary Professor in the University. *Music.* An Honours School has been established in this subject, and a degree of M.Mus. instituted. In connexion with the work of this Department a special course of lectures in Campanology is given with illustrations on the Bournville Bells. *Social Study.* Systematic instruction with practical training for administrative officials, philanthropic workers, Welfare supervisors, trade union and other officials, the clergy, members of local governing bodies. The course leads to a University Diploma in Social Study.

UNIVERSITY OF BRISTOL

A. Schools of *Agriculture, Dental Science, Education, Engineering, Medicine, Public Health, Theology.*

B. The degree of Ph.D. is open to any graduate in the several faculties in accordance with the regulations.

C. Specialist Courses.

Agriculture and Horticulture. Agricultural and Horticultural Research Station at Long Ashton, Somerset, and Fruit and Vegetable Preservation Research Station at Chipping Campden, Gloucestershire. The Royal Agricultural College, Cirencester, is also associated with the University. *Colloidal Chemistry.* Special attention has for many years been devoted to the subject of colloids in both undergraduate and graduate courses, and a school of research is engaged in carrying through an extensive investigation based especially on soaps and nitrocellulose. *Human Morphology* includes Physical Anthropology, and students have the opportunity of taking part in excavations in caves in the Mendip Hills which were occupied by prehistoric man. *Social Study.* Systematic instruction with practical training for officials in national, municipal or rural administration, members of Local Government bodies, the clergy and philanthropic workers. The course leads to a University Testamur and Higher Testamur in Social Study. One Year's Course for Teachers of Music.

UNIVERSITY OF CAMBRIDGE

For information regarding courses leading to the Ph.D. and other higher degrees and specialist courses, the Lecture Lists published in the *Reporter* early in each term and the pamphlet on Facilities for Study and Research (The University Press) should be consulted.

UNIVERSITY OF DURHAM

DURHAM DIVISION

A. Schools of *Theology, Education.*

B. Subjects in which the University is prepared to accept students for the Ph.D. or other higher degree. No list published. Application for admission to courses of post-graduation study will be considered as and when received.

C. Subjects to which exceptional attention is given:

Arabic (Diploma granted to graduates and non-graduates). *Military Science*, an optional subject for B.A. and B.Com.

COLLEGE OF MEDICINE

Facilities for advanced study and research are provided in almost all subjects of the medical course, but especially in *Bacteriology, Pathology* and *Physiology*. The Royal Victoria Infirmary and the Princess Mary Maternity Hospital afford ample material for clinical research.

ARMSTRONG COLLEGE

A. Schools of *Art, Architecture, Commercial Science, Engineering, Naval Architecture* and *Marine Engineering, Metallurgy, Mining, Agriculture, Education.*

B. Ph.D. Applications for admission to courses of study and research for the Ph.D. degree will be considered as and when received.

Special facilities for research are provided in Pure Science, Applied Mathematics, Naval Architecture, Zoology, Electrical Engineering, Agriculture and Economics.

C. Subjects to which exceptional attention is given:

Fine Art and *Music* for the Pass B.A. *Architecture.* An Honours course covering five years (parts of the fourth and fifth to be spent in an architect's office). *Ancient History.* Special facilities for the study of Roman Britain. *Mechanical and Marine Engineering. Naval Architecture.* Special facilities for the study of high-speed engines and all problems connected with shipbuilding. *Agriculture.* The Department has under its control the Northumberland County Council Experimental Station. Training in Practical Forestry at Chopwell Woods leading to College Certificate. *Marine Biology.* The Dove Marine Laboratory, at Cullercoats, is part of the Zoological Department of the College; available for research work.

UNIVERSITY OF LEEDS

A. Schools of *Law, Medicine, Dental Science, Engineering, Metallurgy, Mining, Agriculture, Education.*

B. Subjects in which the University is prepared to receive candidates for the Ph.D. or other higher degrees. Application for admission to courses of Post-graduation study will be considered as and when received.

C. Specialist Courses.

Social Organization and *Public Service.* Two years' course for Diploma; *Economics, Industrial* and *Social History, Social Psychology, Local Government, Public Health* and *Hygiene, Administration, Social Ethics, Statistics, Labour Organization,* etc. *Colour Chemistry and Dyeing.* Courses of lectures with practical work in the special laboratories of the Department extending over four years for Honours B.Sc., or (for immatriculated students) for Diploma; three years, for Pass

B.Sc., or Diploma; five years' part-time course for dyers' apprentices. *Coal Gas and Fuel Industries with Metallurgy.* Course of lectures with practical work in the special laboratories of the Department for Hons. Degree, Ordinary Degree or Diploma. Two years' post-graduation course for Diploma in (i) Gas Engineering, (ii) Fuel and Metallurgy. *Leather Industries.* Courses of lectures with practical work in the special laboratories of the Department for the Ordinary Degree, Honours Degree, and M.Sc. and Diploma. *Textile Industries.* Courses of lectures with practical work in the special laboratories of the Department for B.Sc. in Textiles or B.Com. with Textiles as principal subject, one-year post-graduation course for Diploma, three years' course for Diploma. *Agriculture.* The Department conducts, on behalf of the County Councils of the three Ridings, the whole scheme of Agricultural Education in Yorkshire. The laboratories (Agricultural Chemistry, Botany, Bacteriology, and Zoology) are open for research, or for special technical training. A special feature is that of Agricultural Economics.

UNIVERSITY OF LIVERPOOL

A. Schools of *Theology, Law, Medicine* (including *Tropical Medicine* and *Public Health*), *Dental Science, Veterinary Science, Civic Design and Town Planning, Architecture, Naval Architecture, Commercial Science, Engineering* (including *Marine Engineering*), *Metallurgy, Education.*

B. Subjects in which the University is prepared to receive students for the Ph.D. degree: the following departments have been approved. The Ph.D. committee is prepared to receive applications for recognition from any other department in which candidates may desire to work.

ARTS. *Methods* and *Practice of Archæology* (*Archæology of Palestine*), *Philosophy, Mediæval History, English Literature, German.* SCIENCE. *Chemistry* (*Inorganic, Organic* and *Physical*), *Mathematics, Physics, Zoology, Botany, Geology, Oceanography.* MEDICINE. *Physiology, Bio-Chemistry, Entomology, Bacteriology.* ENGINEERING. *Mechanical Engineering, Thermodynamics of Heat Engines, Refrigeration, Strength of Materials, Electrical Engineering, Civil Engineering, Naval Architecture, Metallurgy.*

C. Specialist subjects.

FACULTY OF ARTS. *Palæography and Diplomatics. Course A*: The outlines of Latin Palæography from the earliest times to about 1600. *Course B*: English Hands, especially Diplomatic, to about 1600. *Course C*: French Hands, Book and Diplomatic, to about 1500. Similar Courses will be provided, if required, for candidates in the Honours Schools of German, Italian and Spanish. *Course D*: The outlines of Diplomatics. Students have access to the Library of the School of Local History and Records, which has a palæographical section containing a large collection of facsimiles of MSS. of all periods. *Classical Archæology. Course A*: Outlines of the Antiquities of Greece. *Course B*: Greek Art and Antiquities of the Fifth Century B.C. *Course C*: Roman Art and Antiquities from 31 B.C. to A.D. 180. *Course D*:

Ancient Art with special reference to architecture and sculpture. *Course E*: Classical ornament and symbolism. *Methods and Practice of Archæology. Course F*: Methods in Archæological Research. Further courses of study and research will be offered in connexion with the British School of Archæology in Jerusalem both at Jerusalem and at the University. *Egyptology. Course G*: History, Art and Archæology of Ancient Egypt. Ancient Egyptian Language. *Assyriology. Course H*: History, Art and Archæology of Babylonia and Assyria. *General Archæology. Course J*: Prehistoric Man. Prehistoric Italy and Sicily. Associated with the Department of Archæology is an Institute of Archæology containing a library and museum of Comparative Archæology. The University awards a Certificate and Diploma in Archæology. *Fees.* Courses: Diploma, £10; Certificate, £30; Examinations: Diploma, £4; Certificate, £3. *Celtic. Course A*: Modern Welsh Language and Literature; Elements of Welsh Phonology. *Course B*: Early Modern Welsh Language and Literature; Outlines of Historical Grammar. *Course C*: Mediæval Welsh Language and Literature; Outlines of Historical Grammar. *Course D*: History of Welsh Literature. *Course E*: Spoken Welsh. *Course F*: Teachers' Course in Language and Literature; Modern Welsh Language and Literature; Elements of Welsh Phonology; Phonetics. Special forms of literature, lyrical poetry from the sixteenth century, and narrative prose from the eighteenth century. *Course G*: Modern Historical Sources in the Welsh Language. *Course H*: Mediæval Historical Sources in the Welsh Language. *Art of the Theatre.* A short course, open free to the public, is given each year by a lecturer appointed specially for the purpose. *Social Studies.* The School provides a course of study covering one or two years leading to a Certificate and Diploma in Social Studies. The Diploma Course is designed for University graduates and others who can give evidence that their education has reached a similar standard. *Fees.* Course for the Diploma (2 yrs.), £25; Examination, £3. Course for the Certificate (2 yrs.), £25; Examination, £3. *Civic Design and Town Planning.* The Department (established 1909) is part of the School of Architecture and is intimately associated with it. The University grants a Certificate and Diploma in Civic Design. The Course for the Diploma meets the requirements of qualified students who desire to pursue their studies in Town Planning to a stage demanding a trained artistic sense and a knowledge of the problems involved in civic composition. There are special Lecturers on Landscape Design, the Law of Housing, and Civic Engineering. *Fees*: Course for the Certificate, £10; Examination, £3. Course for the Diploma, £35; Examination, £6 : 5s.

FACULTY OF SCIENCE. *Oceanography.* The staff includes Honorary Lecturers in Sea Fisheries, in Economic Ichthyology, and in Marine Biology. The Oceanographic Laboratory is open for research work to graduate students. The Port Erin Biological Station and the Lancashire Sea Fisheries Marine Laboratory at Piel are also available for such work. *Tidal Institute.* Founded in 1919 for research into all aspects of knowledge of the Tides. Graduates are admitted as research workers under the guidance of the Director.

FACULTY OF MEDICINE. *Tropical Medicine.* The School of Tropical Medicine (founded in 1898) trains medical men proceeding to the Tropics in the subject of tropical diseases; conducts researches and organizes prophylactic measures against tropical diseases. The University awards a Diploma in Tropical Medicine. Candidates must hold a registrable qualification to practise Medicine. *Fee* for the Course, £21; for Examination and Diploma, £6 : 5s. *Medical Radiology and Electrology.* The University awards a Diploma in Medical Radiology and Electrology. Candidates must hold a registrable qualification to practise Medicine. *Fee* for the Course, £24 : 5s. Examination and Diploma, £6 : 5s. in one examination, or £7 : 6s. if taken in two parts. *Orthopædic Surgery.* The University awards a Degree of Master of Orthopædic Surgery. *Fee* for the Course, £41; Examination and Degree, £10. *Public Health.* The City of Liverpool and its Port offer exceptional advantages for the study of Public Health, and every facility is afforded for training in sanitary science and State Medicine. The City Laboratories and University School of Hygiene are contained in one building which houses the City Analyst and City Bacteriologist, together with the University staff in Public Health. The University confers the degree of Master of Hygiene and a Diploma in Public Health. *Fees.* Degree of Master of Hygiene, 2 yrs., £80; Examination and Degree Fees, £15 : 10s. Diploma in Public Health, Course, £40; Examination and Diploma, £6 : 5s. *Dentistry.* In addition to the facilities afforded by the Medical School for certain subjects of the Dental curriculum, the University possesses a Dental School, recently built; the Dental Hospital adjoining is intimately associated with the Dental School. *Veterinary.* Students in the Veterinary School are prepared for (1) the Diploma of Membership (M.R.C.V.S.) and the Fellowship (F.R.C.V.S.) of the Royal College of Veterinary Surgeons. (2) The Degrees of Bachelor of Veterinary Science (B.V.Sc.), Doctor of Veterinary Science (D.V.Sc.) and the Doctorate in Philosophy (Ph.D.). (3) The University (post-graduation) Diploma in Veterinary Hygiene.

UNIVERSITY OF LONDON

A. SCHOOLS of *Theology* (King's College Theological Department, New and Hackney Coll., Hampstead, Regent's Park Coll., Wesleyan Coll., Richmond, St. John's Hall, Highbury); *Law* (University Coll., King's Coll. and the School of Economics jointly); *Medicine* (12 Hospital Medical Schools, University and King's Colleges (*vide supra*), Lister Institute of Preventive Medicine, Royal Army Medical Coll., Royal Naval Coll., Greenwich, Bethlem Royal Hosp., Maudsley Hosp.); *Dental Science* (11 Hospital Dental Schools, vide *supra*); *Veterinary Science* (Royal Veterinary Coll.); *Music* (Royal Academy, Royal Coll., Trinity College); *Art* (University Coll., Slade School, Goldsmith's Coll.); *Dramatic Art* (East London Coll.); *Civic Art and Design*, and *Town Planning* (Univ. Coll., Bartlett School); *Ecclesiastical Art* (King's Coll.); *Architecture* (Univ. Coll., Bartlett School); *Journalism* (Univ. Coll., King's Coll. and School of Economics jointly); *Librarianship* (Univ. Coll.); *Economics and Political Science* (School of Economics); *Social*

Science and Administration (School of Economics); *Commercial Science* (School of Economics); *Engineering* (Univ. Coll., King's Coll., Imperial Coll., East London Coll.); *Metallurgy* (Imperial Coll.); *Mining* (Imperial Coll.); *Mining* and *Technology of Petroleum* (Imperial Coll.); *Mining Geology* (Imperial Coll.); *Agriculture* and *Estate Management* (Rothamsted-Lawes Agricultural Trust, South-Eastern Agricultural College, Wye); *Education* (King's College, London Day Training College, Goldsmiths' College, Maria Grey Training College, St. Mary's College, Paddington, Borough Road College, Isleworth).

B. Students studying for the Ph.D. Degree (Internal) had been accepted (June 1925) in the following subjects:

Aeronautics (v. Maths. below), *Agricultural Chemistry, Anthropology, Arabic, Archæology, Astronomy, Bacteriology, Bantu Languages, Bengali, Biology, Botany, Chemical Technology, Chemistry, Chinese, Dietetics, Economics, Education, Embryology, Engineering, English, Entomology, Ethnology, French, Fuel Technology, Genetics and Cytology, Geography, Geology, German, Helminthology, Hindu Philosophy, History, History of Science, Hydraulics, Italian, Jain Literature, Mathematics* (including Maths. as applied to Aeronautical Science), *Metallurgy, Meteorology, Mining, Mycology, Pekingese, Persian, Petrology, Philosophy, Phonetics, Physics, Physiology, Political Science, Psychology, Puranic Literature, Rabbinic, Slavonic Studies, Sociology, Spanish, Spectroscopy, Statistics, Theology, Zoology.*

C. UNIVERSITY COLLEGE—Specialist Courses.

[Fees for lectures or seminars are generally at the rate of from 3 to 4 guineas for the session or 1½ guineas a term for one hour per week.]

Physical and Cultural Anthropology. Archæology, (*a*) Greek Art and Architecture. (*b*) Epigraphy, History of Art, Antiquities and Mythology. (*c*) History of Ancient Sculpture. (*d*) Surroundings of Greek and Roman Life. *Assyriology. Astronomy,* (*a*) Practical Astronomy. (*b*) Spectroscopy. (*c*) Modern Stellar Astronomy. (*d*) Advanced Astronomy for graduates. *Celtic,* Old Irish Literature. *Chemical Engineering.* Special Course (2 sessions) in Scientific Principles underlying Chemical Processes on technical scale. *Danish,* v. Scandinavian. *Dutch History, Language and Literature. Egyptology.* Training Course, 2 sessions, including Language, Art, Anthropology. Evening School, Hieroglyphics and Egyptian Religion. *Engineering,* Post-graduation courses in all branches, including Railway Engineering, Waterways, Harbours and Docks, Reinforced Concrete, Photographic Surveying, High Frequency Electric Measurements and Electrical Design. *Eugenics,* v. Statistics. *History,* Post-graduation seminars in (*a*) Sources of English History in the Fourteenth, Fifteenth and Sixteenth Centuries, with practical work illustrating methods of Historical Research. (*b*) History of the Christian Church. (*c*) English Political History. (*d*) Scottish History. (*e*) History of London. (*f*) Colonial History. (*g*) Diplomatic History. (*h*) American History. (*i*) Modern French History. (*j*) Dutch History and Institutions. (*k*) The History of the Great War, 1914–18. *History of Medicine. Law,* (*a*) Comparative Customary Law. (*b*) Roman-Dutch Law, with seminar. (*c*) Constitutional Law.

(*d*) Ottoman Law. (*e*) Hindu and Muhammadan Law. *Librarianship*, (*a*) Bibliography. (*b*) Palæography and Archives. (*c*) Abstracting, Indexing, and Classification. *Military Studies*. Junior and Senior Courses. *Norwegian*, v. Scandinavian. *Comparative Philology*, 1. History and Principles. 2. Comparative Syntax of Greek and Latin. *Phonetics*, 1. English Phonetics for Foreign Students. 2. English Phonetics for English Students. 3. Phonetics of French, German, Italian, Welsh, Danish, Swedish, and other Languages. 4. General Phonetics (advanced) and Research Work. 5. Spoken English for Foreign Students. *Psychology*. (*a*) A new system of General Principles illustrated by explanatory mental tests, with seminar and laboratory course on testing individual abilities, etc. (*b*) The Sense and Nervous System. (*c*) Recent Experimental Results. (*d*) Fundamental Problems and Controversies. (*e*) Mental Measurement, with Exercises. (*f*) Physics of Experimentation. (*g*) Animal Psychology. (*h*) Comparative Psychology of Primitive Races. (*j*) Psychology of the Learning Process. (*k*) Child and Comparative Psychology. (*l*) Psycho-analytic Study of Conduct and Character. *Scandinavian Studies*, Danish, Norwegian and Swedish, Junior or Senior Class, 1 g. for session, Post-graduation work, Literature of nineteenth century; Icelandic. *Statistics*, Applied, and Eugenics (Galton Laboratory for National Eugenics and Biometric Laboratory) Laboratory work (trained students only).

List of Departments other than those named above in which post-graduation courses are provided (v. special pamphlet obtainable from Secretary), *Latin, Greek, Hebrew, English, Romance Philology and French, Germanic Philology and German, Italian, Political Economy, Geography, Philosophy, Principles, History and Method of Science, Tibetan, History of Art, Architecture* (including *Town Planning*), *Mathematics, Pure and Applied, Physics, Chemistry, Geology, Botany, Zoology and Comparative Anatomy, Embryology and Histology, Physiology and Bio-chemistry, Hygiene and Public Health.*

KING'S COLLEGE—Specialist Courses.

[Fees for Occasional Classes and Seminars are usually at the rate of £1 : 11 : 6 per term or £4 : 4s. for the session for one hour a week in day classes, and £1 per term or £2 : 10s. for the session in evening classes.] Composition fees for full-time Post-graduate Courses vary from £8 : 8s. to £22 : 1s. p.a

FACULTY OF ARTS: *English Language and Literature and Bibliography*. Evening School of English for post-graduation work including special Four-year Course for Evening Students for the University Diploma. *Mediæval and Modern History*. Palæography and Diplomatic, Ecclesiastical History, Mediæval History, Imperial History. *School of Slavonic Studies*. (*a*) Russian—full provision for all teaching to B.A. Hons. and higher degrees. (*b*) Slavonic Philology. (*c*) Polish Language and Literature. (*d*) Czecho-Slovak Language and Literature. (*e*) Serbian Language and Literature. *School of Spanish Studies*. To B.A. Hons. and higher degrees. Phonetics. *Department of Portuguese. Modern Greek*. Language and Literature, including Byzantine History and the History of Modern Greece. *Psychology*. Special Courses in

Educational Psychology and for the University Diploma. *Education.* Secondary Teachers' Training Department. Post-graduation work.

College Certificates are awarded in Spanish, Portuguese, Italian, Russian, Hebrew, Czecho-Slovak, Serbo-Croat, and Polish.

FACULTY OF THEOLOGY. Seminars in Biblical and Rabbinical Hebrew, in the Philosophy of Religion, in Ecclesiastical History. Provision for the advanced study of the New Testament.

FACULTY OF NATURAL SCIENCE. *Mathematics and Physics.* Thermionics, Radiation, Quantum Theory, Spectroscopy, Theory of Relativity. *Chemistry.* Optical Activity of Cyclic Compounds, Photo-chemistry, Stability and Electrical Properties of Colloids, Electro-chemistry, Carbon Compounds of Sulphur. *Zoology.* Special Research in Porifera, Protozoa. *Botany.* Cytology, Genetics.

FACULTY OF MEDICAL SCIENCE. *Physiology.* Research in Experimental Physiology, especially in relation to the Circulation. Biochemistry of the Carbohydrates, Physical Chemistry of Blood, Histology of the Nervous System in health and disease. *Bacteriology.* Medical Bacteriology, Bacteriology of Fermentation.

FACULTY OF ENGINEERING. Research in Heat Engines, including Steam and Internal Combustion Engines, Refrigeration, Strength and Elasticity of Materials, Hydraulics.

Advanced Lectures on "Recent Developments in Hydro-Electric Engineering," "Electrical Sub-stations."

IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

[Including: THE ROYAL COLLEGE OF SCIENCE; THE ROYAL SCHOOL OF MINES; THE CITY AND GUILDS (ENGINEERING) COLLEGE. Specialized Courses are as follows, but advanced work and research are carried out in all Departments of the Colleges. Students have ready access to the Science Library, which is situated in the Royal College of Science, and to the Science Museums adjacent thereto. The Diploma of the Imperial College is awarded for approved advanced study and research extending over not less than one year, and the higher degrees of London are open to students who register as internal students of the University.]

Aeronautical Engineering: Aerodynamics, Design lectures and class, Materials of Aircraft Construction, Construction and Strength of Aircraft, Engine Design, Airships, Meteorology, Air Navigation and Instruments. *Biology*: Bacteriology, Pathology, and Physiology of Plants, Timber for Engineers and Architects, The Technology of Some Wood Industries, Timber Diseases, Fibres and Fibre-Yielding Plants, Bio-chemistry, Problems of Heredity, Colonization and Social Reconstruction, General Entomology, Advanced Entomology, Economic Entomology. *Chemical Technology*: Technology of Fuel, Refractory Materials and Silicate Technology, Manufacture of Glass, Ceramics and Cement, Chemical Engineering, General Chemical Technology. *Geology and Oil Technology*: Mining Geology, Engineering Geology, Geology of Road Construction and Maintenance, Physical Geology. *Mathematics and Mechanics*: Special Theory of Relativity, Theory of Quanta, Kinetic Theory of Gases, Analysis of Observations, Differential Equa-

tions, Vibrations and Stability of Elastic Systems, Electro-magnetic Theory. *Technical Optics*: Physical Optics, Optical Designing and Computing, Workshop and Testing Room Methods, Vision and Aids to Vision, Construction Theory and Use of Optical Measuring Instruments, Elasticity applied to Scientific Instrument Design, Advanced Designing and Computing, Mechanical Design of Instruments, Measurement and Recording of Light, Colour and its Measurement. *Physics*: Measurement of High Temperatures and Optical Pyrometry, Spectrum Analysis and Radiation, Internal Combustion Engines, Some New Developments in Physics. *Mechanical Engineering and Motive Power*: Railway Engineering and Mechanical Transport, The Locomotive and Mechanical Transport, Railway Signalling, Electric Traction and Railway Electrification, Bridge Design and Permanent Way. *Civil Engineering*: Structural Engineering, Hydraulic Engineering, Geodesy, Public Works, Steel Bridges, Reinforced Concrete, Hydraulic Machinery. *Electrical Engineering*: Electrical Machinery, Hydro-Electric Plant, Wireless Telegraphy and Telephony, Alternating Current Commutator Motors, The Organization of Electrical Manufactories, Design of Turbo-Generators, Transformer Practice and Insulation of Electrical Plant.

Composition Fees are at the rate of £62 : 10s. per academic year for course work, and £22 : 10s. for research. They include membership subscriptions to the Unions and Clubs.

EAST LONDON COLLEGE—Advanced and Specialist Courses.

Aeronautics: A special course suitable for those who desire to be trained as Aeronautical Engineers, arranged to run concurrently with the B.Sc. (Engineering) Course. It includes work with an experimental wind channel and special instruction in the construction and design of Aeroplanes. Among the post-graduation courses are *English Language and Literature, French Language and Literature, Modern History*, Advanced and Research work in *Mathematics, Chemistry, Physics, Botany*, and *Engineering*, for which there are special facilities. *Dramatic Study and Research.* This new school is intimately associated with the School of English Language and Literature. Classes are arranged on the history of the drama and the history of the stage. Special performances of revived and new plays are given in the theatre. Fees—£22 : 2s. for the session.

SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

[The name of the subject is followed by the number of lecture hours, and the term or terms (Michaelmas, Lent, Summer) in which the lectures are given. The fee is generally at the rate of about £1 : 5s. for ten hours for day students; 16s. 8d. for ten hours for evening students.]

Accounting and Business Methods. Accounts of Traders and Companies, Parts I. and II. (30 or 60 M.L.S.); Business Organization (20, M.L.); Works and Factory Accounting and Costing (26, M.L.S.); Secretarial Practice (20, M.L.); *Banking and Currency*: Elements of Currency Banking and International Exchange (15, L.S.); Principles

of Currency and Banking (20, M.L.), The Stock Exchange Speculative Markets, and Dealing (6, S.); The History of Currency and Banking, with special reference to England (26, M.L.S.); The Foreign Exchanges and International Banking (6, M. or S.); Banking and Finance in the Principal Foreign Countries (40, M.L.);—(The U.S.A., South America, and the Near East (20) and Europe (20)); Banking in the British Dominions (9, L.); Recent Monetary History and Monetary Controversies: an Introduction to the Monetary History of the Modern World (6, S.); *Commerce and Industry*: British Foreign Trade (9, S.); Elements of Industrial Organization (15, L.S.); Industrial Organization (20, M.L.); Modern Industrial Problems (20, M.L.); The Financing of Industry (6, S.); Raw Materials of Industry and Trade (20, M.L.); International Trade and Traffic of the Great Ports of the World (25, M.L.S.); General Trade and Transport Relations of the European Countries (10, M.); The Trade of Europe (50, M.L.S.); The Trade of America (26, M.L.S.); The Trade of India (10, M.); Trade of Africa and Australasia (15, L.S.); Indian Production (10, M.); Indian Finance (20, M.L.); *Economics*: The Elements of Economics (26, M.L.); Principles of Economics (54, M.L.S.); Methods of State Regulation of Wages (6, M.); Modern Theories of Wages (6, S.); Economic Fluctuation (10, M.); *Ethnology*: Ethnology (8, M.); Prehistoric and Early Man (8, M.); Living Races of Man and their Distribution (8, L.); The Culture of Melanesia (16, L.S.); Discussions on Primitive Psychology (40, M.L.); Comparative Study of Language (L.S.); The Useful Arts of Primitive Peoples (10, S.); *Geography*: Commercial Geography (30, M.L.S.); Europe, the Mediterranean, and the Near East (10, L.); General Regional Geography (18, S.); Geography (B.A. Intermediate) (57, L.S.); Economic Geography (26, M.L.S.); Map Class in Geography (60, M.L.S.); Class in Detailed Geography of North America (60, M.L.S.); Detailed Geography of Europe (60, M.L.S.); Historical Geography of Continental Europe and the Mediterranean (11, M.); Historical Geography of the British Isles (10, L.); Historical Geography of W. N. and Central Europe (10, L.); Historical Geography of S.E. Europe and Mediterranean (9, S.); The Geographical Factor in History (6, S.); Geographical History of London (6, M.); Political and Constitutional History of England, 1689–1914 (25, M.L.S.); *History*: History of the Modern World (30, M.L.S.); The Growth of English History (30, M.L.S.); Economic Development of the British Isles (11, M.); Economic Development of the Overseas Dominions (19, L.S.); The Growth of English Commerce and Colonization (30, M.L.S.); The Economic Position of the Great Powers (27, M.L.S.); The Political Position of the Great Powers (30, M.L.S.); Economic History from 1485 (26, M.L.S.); Constitutions of the Great Powers (20, L.S.); Social and Economic History of Tudor England (30, M.L.S.); Mediæval Trade (30, M.L.S.); Economic History of Western Europe in the Middle Ages (30, M.L.S.); A Survey of the Sources for English Agrarian Economy (6, M.); European Diplomacy, 1890–1914 (9, L.); Mediæval Famine Records (45, M.L.S.); *Law*: Industrial Law (26, M.L.S.); Elements of Industrial Legislation (15, M.L.); Common Law (Contracts, 25, M.), (Torts, 25, L.); Criminal Law and Procedure (30, M.L.); Law

of Property (45, M.L.S.) ; History of English Law (44, M.L.S.) ; The Year Books (4, M) ; Conveyancing (29, M.L.S.) ; Mercantile Law — Special Subjects (29, M.L.S.) ; Agrarian Legislation (3, M.) ; Elements of English Law (30, M.L.S.) ; Elements of Commercial Law (52, M.L.S.) ; The Law of Banking (21, M.L.) ; Maritime Law (15, L.S.) ; The Law of Marine Insurance (10, M.) ; The Law of Carriage by Railway (20, M.L.) ; Constitutional Law and History (40, M.L.S.) ; International Law (Peace) (26, M.L.S.) ; International Law (War and Neutrality) (26, M.L.S.) ; Code Napoleon (36, M.L.S.) ; *Logic, Psychology, and Philosophy* : Logic (30, M.L.S.) ; Scientific Method (15, L.S.) ; Industrial Psychology and Physiology (6, L.) ; Industrial Psychology (30, S.) ; The Psychological Theory of Law (4, L.) : *Politics and Public Administration* : The British Constitution (30, M.L.) ; Public Finance (Descriptive) (6, M.) ; Theory of Public Finance (10, L.) ; Public Administration (21, M.L.) ; Political and Social Theory (20, M.L.) ; The Central Government of the United Kingdom (21, M.L.) ; The Machinery of Parliament (5, S.) ; Introduction to Study of International Politics (20, L.S.) ; International Disputes (15 L.S.) ; The History of Political Ideas from Plato to the Nineteenth Century (26, M.L.S.) ; English Political Thought in the Nineteenth Century (9, S.) ; French Social Thought in the Seventeenth Century (6, S.) ; Federal Government (10, M.) ; The French Constitution (11, M.) ; French Public Administration (16, L.S.) ; L'enseignement en France (5, L.) ; The Government of French Colonies (5, L.) ; Local Government (20, M.L. or L.S.) ; The British Empire (15, L.S.) ; Comparative Parliamentary Government (20 M.L.) ; The Civil Service in Foreign Countries (6, S.) ; Foreign Methods of Treasury Control (5, L.) ; Communistic Legislation in Russia (4, L.) ; Marxism in Russia (4, S.) ; *Social Science and Administration* : Introduction to Social Philosophy (20, M.S.) ; Modern Social Theories (20, M.L.) ; The British Economists (20, M.L.) ; Problems of Modern Industry (20, M.S.) ; Social Developments from 1760 (30, M.L.S.) ; Physiology (30, M.L.S.) ; Machinery of Government (10, M.) ; Industrial Welfare Work (4, S.) ; *Sociology* : Comparative Social Institutions (20, M.L) ; Social Philosophy and Psychology (20, M.L.) ; Comparative Ethics and Religion (20, M.L.) ; Introduction to the Study of Society (20, M.L.) ; Modern Ethical Theories (10, L.) ; Biological Factors in Social Evolution (8, S.) ; Social Rights and Duties (12, S.) ; The Family (12, S.) ; *Statistics and Mathematics* : Introduction to Statistics (10, L.) ; Mathematics Preparatory to Statistics (60, M.L.S.) ; Statistical Method (25, M.L.S.) ; General Statistics (30, M.L.S.) ; Advanced Statistics (26, M.L.S.) ; Current Statistical Questions (5, L.) ; Advanced Mathematics (26, M.L.S.) ; Business Statistics (25, M.L.S.) ; *Transport* : Organization of Transport (26, M.L.S.) ; Economics of Transport (26, M.L.S.) ; Ships in relation to their work (5, L.) ; Railway Statistics (10, L.) ; Commercial Railway Economics (20, M.L.) ; Operating Railway Economics (20, M.L.) ; General Economics with special reference to Transport (10, M.) ; Control Systems in Railway Working (10, L.) ; Railway Accounts (10, L.) ; Railway and Commercial Geography of the United Kingdom (20, M.L.) ; " Commercial " side of Passenger Traffic (10, L.) ; Industrial Councils

on the Railways (10, L.); Modern Road Transport (12, M.L.); Rate Making (10, M.).

The School affords special facilities for research in Economics, Law and Political Science. The Library, which is one of the largest in London, includes the British Library of Political Science, the Cobden Library of International Commerce and Peace, the Fry Library of International Law, and the Schuster Library of Comparative Legislation. There are separate reading-rooms for the different departments. Research students are advised and directed in their research by the senior members of the staff. A large number of seminars are held.

SCHOOL OF ORIENTAL STUDIES

Teaching is provided with opportunities for research in more than 45 *languages*; in the *history, religions, and customs* of Oriental and African peoples; *Epigraphy*; *Comparative Philology*; *Phonetics*. Fees: For single language classes, with right to attend all other lectures, 8 gs. to 16 gs. Composition, £21 a session.

INSTITUTE OF HISTORICAL RESEARCH

The Institute is the University Laboratory of History devoted exclusively to post-graduation work. It is open to historians, archivists, teachers, and research students from other approved universities.

Introductory Courses. On the Sources of English History in the Thirteenth and Fourteenth Centuries, Th. 3.30-4.30; The Sources of English History in the Fifteenth and Sixteenth Centuries, with practical work illustrating methods of Historical Research, M. 5-6. The Sources of English and Colonial History in the Eighteenth and Nineteenth Centuries, M. 5.30-6.30. The Sources of the History of British India, W. 5-6. The Use of Archives, especially the Documents in the Public Record Office; 5 lectures and demonstrations to be given in the second and third terms, at least one to be held at the Public Record Office, the others at the Institute, M. 5.30-6.30. Mediæval Latin, Th. 6-7. *Seminars*: Greek Palæography, Th. 6.30-7.30. Latin Palæography, Th. 5.30-6.30. The History of England in the Reigns of Edward I. and Edward II., Th. 5-6. English History in the Fifteenth Century, M. 2.30-3.30. European Trade in the Later Middle Ages, M. 7.30-8.30. The History of London in the Fifteenth and Sixteenth Centuries, W. 5.30-6.30. English Constitutional History in the Fifteenth and Sixteenth Centuries, Tu. 5.30-6.30. English Social and Constitutional History in the Seventeenth Century, W. 6-7. Colonial History: (*a*) The African Trade, 1660–1837. (*b*) British North America and the West Indies, 1763–1837, Tu. 5.45-6.45. Diplomatic History in the Seventeenth and Eighteenth and Nineteenth Centuries, Th. 5.15-6.15. The Period of the Whig Ascendency, 1714–1763, F. 5.30-6.30. English Political History in the Eighteenth Century, W. 5-6. Modern French History, W. 5.30-6.30. British India, 1773–1858, M. 5.30-6.30. The History of the United States since 1783, W. 6-7. The History of the Great War, 1914–18, Th. 5.15-6.15. The Habsburg Dominions, 1848–1867, Th. 5.30-6.30. Diplomatic History, 1870–1914, Tu. 5.30-6.30. For further information regarding other seminars contemplated apply to the Secretary of the Institute, Malet Street, W.C.1.

BEDFORD COLLEGE FOR WOMEN

Fees for lectures given once a week, 2½ gs. a term. *Geography* and *Applied Psychology* preparatory to the academic Diplomas. Courses in *Social Studies* preparatory to the College and Board of Education's Certificates.

HOUSEHOLD AND SOCIAL SCIENCE DEPARTMENT OF KING'S COLLEGE FOR WOMEN

Post-graduation classes in *Physiology, Hygiene, Bacteriology, Household Arts, Applied Chemistry,* in preparation for Certificate.

JEWS' COLLEGE

Bible, Hebrew Bible Commentaries, Hebrew, Aramaic, Syriac and Arabic, Midrash, Jewish History and Literature, History of the Jewish Liturgy, Talmud, Rabbinic Responsa, Works of Jewish Philosophers.

SOUTH-EASTERN AGRICULTURAL COLLEGE, WYE

A. Schools of Agriculture and Horticulture. (Commercial Fruit Growing and Market Gardening.)

B. Facilities are provided for special research work in Agricultural Economics, Economic Entomology and Economic Mycology.

ROTHAMSTED EXPERIMENTAL STATION, HARPENDEN

Laboratories, agricultural library, and experimental farm of 300 acres. Devoted exclusively to research in agricultural science, especially in soils, plant nutrition and plant diseases. Departments for agricultural chemistry, agricultural botany, soil physics, soil bacteriology, protozoology, mycology, entomology, statistical methods, field, pot culture and glass-house experiments. Provision for post-graduate workers who have already had the necessary training in pure science. Recognized for M.Sc., Ph.D. and D.Sc. London, and Ph.D. Cambridge. Special facilities for gaining experience in field work and for studying methods of agricultural investigation are afforded to graduates proceeding to take agricultural appointments in this country or overseas, and also to officers of Agricultural Departments of the Empire and others engaged in scientific agriculture overseas who, when on leave in this country, may wish to study special problems, to consult the literature, to prepare reports, etc.

BATTERSEA POLYTECHNIC

Facilities for advanced study and research in *Pure Science* and in various branches of technology, *e.g. Chemical Engineering, Applied Bacteriology, Oils, Fats, Waxes and Mineral Oils, Paper-making, and Testing.* Post-graduation evening courses in Chemical Engineering, Chemistry of Proteins, Physics and Chemistry of Colloids in the Paint and Varnish Industry.

NORTHAMPTON POLYTECHNIC INSTITUTE

Facilities for research in *Applied Optics.*

NORTHERN POLYTECHNIC INSTITUTE

Advanced study and research in various subjects, including *Rubber Technology.*

SCHOOL OF PHARMACY Pharmaceutical Society of Great Britain.

MEDICAL SCHOOLS

Facilities for special research work are offered by the Lister Institute of Preventive Medicine, Middlesex Hospital (Radiology and Electrology, Cancer Research), University College Hospital (Cardiography), Bethlem Royal Hospital (Neurology, Psychological Medicine), Maudsley Hospital, National Hospital for the Paralysed and Epileptic (Neurology), Royal London Ophthalmic Hospital (Ophthalmic Medicine and Surgery). London School of Hygiene and Tropical Medicine (Medical Entomology, Helminthology, Protozoology, Noxious and Venomous Animals). Fees 2 gs. per week. For information regarding specialized courses arranged by the Fellowship of Medicine and Post-graduate Medical Association, application should be made to the Secretary, 1 Wimpole St., London, W.1.

THE UNIVERSITY OF MANCHESTER

A. Schools of *Theology, Law, Medicine* (including *Public Health*), *Dental Science, Veterinary Science, Pharmacy, Music, Architecture, Commercial Science* (including *Administration*), *Engineering* (*Civil, Mechanical, Electrical and Sanitary*), *Metallurgy, Mining, Education* (including *Training of Teachers of the Deaf*), *Technology* (*Engineering, Chemistry, and Textiles*).

B. Subjects in which the University is prepared to receive candidates for the Ph.D. degree:

Candidates for the Degree of Ph.D. have been accepted to date in the following subjects: Archæology of Eastern Roman Provinces, Chemistry (Inorganic, Organic, Physical and Applied), Colloids, Economics, Engineering, Hellenistic Studies, History, Metallurgy, New Testament Exegesis, Pharmaceutics, Philosophy, Physics, Physiology, Semitic Studies, Sociology, and Zoology.

The General Board of Faculties is prepared to receive applications for recognition from any other department in which candidates may desire to work.

C. Specialist Courses:

Faculty of Arts. In addition to English, French, German, Greek (Hellenistic and Classical), and Latin, instruction is given in Arabic, Chinese, Hebrew, Italian, Provençal, Russian, Spanish, and Syriac. Moreover, special attention is given to the training of students in the methods of Historical Research, with instruction in Palæography and Epigraphy. Special facilities are afforded for research in Historical Cartography by the Mills and Booker collections of maps.

The Rylands Library offers unique opportunities for advanced study in many branches of modern and ancient literature, for historical research, and for studies in divinity.

Faculties of Science and Technology. In addition to the subjects in

which instruction is given in the Honours Schools of the Faculty of Science, special instruction and facilities for research are furnished in the scientific laboratories in the University buildings in *Botany*, Economic (including Cotton Mycology); *Crystallography*; *Electro-Chemistry* (Pure and Applied); *Applied Psychology*; *Water Supply and Irrigation*; *Zoology*, Economic (including Cotton Entomology). The recently established Graham Research Laboratory offers special facilities for the study of *Colloids*. In the Public Health Laboratories, York Place, courses are delivered and investigations may be undertaken in *Bacteriology* and *Preventive Medicine*, including *Veterinary State Medicine* and also *School and Factory Hygiene*. Research in *Mining* may be pursued either in the Faculty of Science or in the Faculty of Technology.

In the Faculty of Technology (College of Technology) complete plant is installed for practical and research work in *Brewing*, *Colouring Matters* (in the Dye Stuffs Research Laboratory), *Cotton Technology* (Spinning and Weaving, including Textile Testing), *Photographic Technology* (including Kinematography), *Wireless Telegraphy* and *Telephony*. In the Dye House of the College complete plant is installed for *Bleaching*, *Dyeing*, *Finishing*, and *Printing*, and also for *Paper-making*.

Faculty of Medicine. Research may be pursued in any of the subjects forming part of the courses leading to the degrees of M.B. and Ch.B., but special facilities exist for the study of *Cancer Research* (in the Helen Swindells Laboratory and the Christie Cancer Pavilion, and in conjunction with the local Cancer Research Committee), *Neurology* and *Psychological Medicine*, and in *Factory* and *School Hygiene*, and in *Preventive Medicine* in the Public Health Laboratory (*see* Faculty of Science Prospectus and above).

Faculty of Commerce and Administration. The University has received valuable gifts and loans of collections of eighteenth and early nineteenth century records of firms engaged in the cotton industry and trade and in allied industries, and this material is available for students working in the department.

Faculty of Theology. The John Rylands Library contains valuable material on which work can be pursued under the direction of the Professor of *Comparative Religion*, and in connexion with the subject of *Christian Epigraphy* there are special facilities, particularly in connexion with the recent investigations conducted in Asia Minor by the lecturer in that subject.

Faculty of Education. Research in *Education* leading to the degree of M.Ed. may be pursued under the supervision of the Director of this department.

Post-graduate Diplomas and Certificates

The following post-graduate diplomas are obtainable:

Bacteriology, Geography, Psychological Medicine, Public Health, Veterinary State Medicine, Teacher's Diploma.

The following post-graduate certificates are obtainable:

Factory and School Hygiene, Teachers of the Deaf.

UNIVERSITY OF OXFORD

For information regarding courses leading to Degrees open to graduates of other Universities the pamphlet on Facilities for Advanced Studies and Research published by the University Press should be consulted. The Degrees in question are those of B.Litt., B.Sc., D.Phil., B.C.L., and B.D. The pamphlet may be obtained at the Clarendon Press Depository, 116 High Street, Oxford.

UNIVERSITY OF SHEFFIELD

A. Schools of *Law, Medicine, Dental Science, Civic Art, Architecture, Engineering, Metallurgy, Mining, Fuel Technology, Glass Technology, Education.*

B. Subjects in which the University is prepared to receive candidates for the Ph.D. degree :

Candidates for Ph.D. degree are received in the Faculties of ARTS, SCIENCE, LAW, ENGINEERING (including *Mining, Fuel Technology, Glass Technology*), METALLURGY.

C. Specialist subjects :

Pharmacology. The Animal Nutrition Laboratories are a special feature of the University, where research workers who are graduates in Science or Medicine are admitted to work under the Professor of Pharmacology. *Physiology.* In the Physiology Department special facilities are offered for research in Physiological Chemistry for graduates in Science or Medicine. *Engineering.* The Laboratories are equipped for courses of experimental work in Heat Engines, Hydraulics, Strength of Materials and Structures, and Electrical Engineering. In connexion with the Civil Engineering Course several weeks are spent in the field carrying out important surveys. The University awards the degrees of B.Eng., three years being spent for a Pass Degree and four years for Honours, and the Higher Degrees of M.Eng., Ph.D., and D.Eng. Students may take what is known as the " sandwich " course, which includes attendance at the University during the Winter Session, and practical training at an approved works during the six summer months. This course extends over a minimum period of four years. The Laboratories are provided with apparatus and machines for testing the mechanical properties of materials. There is a complete equipment for investigating the resistance of metals to fatigue and the effect of temperature on their properties. A special laboratory is equipped for and devoted to the investigation of the magnetic properties of steels. *Metallurgy.* The University is the most fully equipped educational institution in the country for the study of the Metallurgy of Iron and Steel. Attached to the department are large-scale laboratories in which steel can be melted in the crucible open-hearth and electric furnaces, and heat-treatment can be carried out. The research laboratories are equipped with micrographic and physical apparatus, including a high-frequency induction furnace. The Department of Refractories

includes laboratories for research. *Mining.* Courses in Mining Engineering, including the practice of Mining, Mine Surveying, Mining Chemistry, Geology, and Electrical Engineering. The degree course and the Diploma course are recognized by the Mines Department, Board of Trade; the six months are employed at a colliery under University Regulations. *Fuel Technology.* Courses embodying the practical evaluation of Solid, Liquid, and Gaseous Fuels, Coal Carbonization and By-product recovery, and Electro-technology. Practical experience in working a modern gas producer in conjunction with steel-melting furnaces, and in Pyrometry. *Technology of Glass.* Courses of instruction in general technology of glass, physical properties of glass, glassworks machinery and furnace construction, and practical work includes analytical methods, pyrometry, physical testing and melting of glass on a considerable scale. The Department has been equipped as a special research institute.

UNIVERSITY OF WALES

University College of Wales, Aberystwyth

A. Schools of *Law*; *Music*; *Agriculture* (including *Plant Breeding*); *Education*; *Arts and Crafts.*

B. Post-graduation courses leading to the Ph.D. or other higher degrees:

Arts: *Classics*; *English*; *French*; *German*; *Celtic*; *History*; *Politics*; *Economics*; *Philosophy*, *Geography*; *Education*; *Mathematics.*

Science: *Mathematics*; *Physics*; *Chemistry*; *Botany*; *Agriculture*; *Zoology*; *Geology*; *Geography*; *Anthropology.*

C. Specialist Subjects:

Anthropology—Comparative Religion, early social organization, folk-lore, prehistoric archæology, mapping of human distributions, physical anthropology. *Botany*—Maritime life-histories and ecology. *Classics*—Rhythms of ancient prose, word-order. *Education*—Problems of bi-lingualism. *History* of British Dominions and of Latin America. *Plant Breeding*—Special study of breeds of grasses. *Politics and Economics*—Mediæval economics, modern international problems. *Zoology*—Marine faunistic work, plumbism, entomology.

UNIVERSITY COLLEGE OF NORTH WALES

A. Schools of *Theology, Music, Education, Agriculture, Forestry.*

B. Subjects in which the college is prepared to receive candidates for the Ph.D.

Welsh History, Welsh Language and Literature, Comparative Philology (especially Celtic and Teutonic), *Semitics, Mathematics, Physics,*

Chemistry, Botany, Zoology, Agricultural Chemistry, Botany and Zoology, and other subjects, provided the special investigation proposed is suitable.

C. Specialist Courses:

Welsh History. Mediæval History: The Reformation in Wales: Religious and Social Conditions in the eighteenth and nineteenth centuries: Economic History. *Welsh Literature.* Ancient Welsh Poetry: Dafydd ap Gwilym: Welsh prosody: modern Welsh Literature: Comparative Celtic Philology. *German.* Germanic Philology: German Dialects: Middle High German Poetry. *Semitics.* Semitic Philology: Hebrew (Old Testament problems): Arabic (Classical: Modern dialects of Syria and Egypt: Arabic grammar as set forth by Arab grammarians): Courses in Babylonian, Assyrian, Syriac, and Biblical Aramaic.

UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF

A. Schools of *Education, Music, Engineering, Metallurgy, Mining, Medicine* (including *Public Health Science* and *Tuberculosis*).

B. Subjects in which the College is prepared to receive candidates for Ph.D. degree:

ARTS: *Greek, Latin, English, Welsh, French, Hebrew and Arabic* (including Syriac), *Mathematics, Economics and Political Science, Philosophy, Education.*

SCIENCE: *Botany, Chemistry, Geology, Mathematics, Physics, Physiology, Zoology.*

TECHNOLOGY: *Engineering, Metallurgy, Mining.*

C. Specialist Subjects.

ARTS: *Greek Drama*; *Modern English Drama*, *History of Latin Language* and *Literature*, *Roman History*, with study of Roman Britain, with field work; *Comparative Literature* of Wales and France in the Middle Ages; *Arthurian Legend*; *Anglo-Norman*; *Arabic* (including Syriac); *Money and Banking.*

SCIENCE: *Chemistry.* Experimental work on the Phase Rule and on the mechanism of reactions. *Engineering.* Theory of structures, with special reference to aircraft. *Geology.* The South Wales coalfield and the lower Palæozoic rocks of Wales and of "Siluria." *Mathematics.* Mathematical Physics. *Physiology.* Experimental Neurology and Bio-chemistry. *Zoology.* The Crustacea.

MEDICINE: Special opportunities for research work in biochemistry, experimental physiology, and the physiology of the nervous system. Unusual facilities, organized by the Professor of Tuberculosis, are given for instruction for the Diploma in Tuberculous Diseases (T.D.D., Wales), which is awarded to qualified medical men who, in addition to complying with certain specified conditions, have pursued and successfully completed a course of study extending over

6 months. The tuition fees amount to £11 : 11s. and the fee for examination is £10 : 10s.

UNIVERSITY COLLEGE OF SWANSEA

A. Schools of *Metallurgy, Engineering, Education.*

B. Subjects in which the College is prepared to receive candidates for the Ph.D. degree :

ARTS : *Welsh Language* and *Literature, Welsh History.*

SCIENCE : *Mathematics, Physics, Chemistry, Botany, Geology, Metallurgy, Engineering.*

Other subjects, provided that the special subject proposed is suitable.

C. Specialist Subject :

Metallurgy (Ferrous and Non-ferrous).

UNIVERSITY COLLEGE OF THE SOUTH-WEST OF ENGLAND, EXETER

A. Schools of *Music, Education, Pharmacy.*

B. Subjects in which the College is prepared to receive candidates for the Ph.D. degree :

English, Physics. Other departments in Arts and Pure Science could also receive candidates in a certain limited range of subjects.

C. Specialist Subjects :

Cornish Language and *Antiquities*, intended for students who have made some progress in Celtic studies. Part of the Course will be given in Cornwall. Students may enter for it at the beginning of any of the three terms. Fee 5 guineas per term.

UNIVERSITY COLLEGE OF NOTTINGHAM

A. Schools of *Music, Commercial Science, Engineering, Mining, Agriculture* and *Dairying, Textiles, Pharmacy, Education.*

B. Subjects in which the College is prepared to receive candidates for the Ph.D. degree of London :

Various departments of ARTS and SCIENCE, *Engineering, Economics, Education.*

C. Specialist Subjects :

Slavonic Languages, Fuel, Coal and *Gas Technology, Textiles, Adult Education.* One year course for graduates desirous of qualifying as Tutors of University Tutorial Classes leading to Diploma in Education. Fee 12 guineas.

UNIVERSITY COLLEGE OF READING

A. Schools of *Agriculture, Dairying, Horticulture, Education, Commerce, Fine Art and Crafts, Music, Domestic Subjects.*

B. The College is prepared to receive candidates for the Ph.D. degree in *Philosophy, English, French, History, Physics, Chemistry,* and *Botany.* Applications for preparation for the degree in other subjects in the Faculties of Letters and Science can be considered. Post-graduation courses are also provided in *Agriculture* and *Horticulture.*

C. Specialist subjects :

Exceptional attention is given to *Dairying Science* and Practice. Students wishing to undertake advanced work in this subject should first obtain a degree (in Science or Agriculture) or a diploma or diplomas in Agriculture or Dairying. They could then undertake advanced work either in the College laboratories and the British Dairy Institute in Reading or at the National Institute for Research in Dairying (forming part of the College) at Shinfield. The College courses usually begin in October. A post-graduation or post-diploma course would usually occupy at least a year.

UNIVERSITY COLLEGE OF SOUTHAMPTON

A. Schools of *Music, Commercial Science, Engineering, Education.*

B. Subjects in which the College is prepared to receive candidates for the Ph.D. degree.

Various departments of ARTS and SCIENCE, EDUCATION and ENGINEERING.

UNIVERSITY OF ABERDEEN

A. Schools of *Theology, Law, Medicine, Fine Art, Commercial Science, Agriculture, Forestry, Education.*

B. Subjects in which the University is prepared to receive candidates for the Ph.D. degree. Applications for admission to courses of study and research for the Ph.D. Degree will be considered when received. There are special Post-graduation courses in Theology.

C. Specialist Subjects :

Celtic, Comparative Philology, Oceanography and Fisheries, Comparative Psychology, Cancer Research, Parasitology and Helminthology, Meteorology.

Special facilities for Post-graduation and Research work in Animal Nutrition and cognate subjects are afforded by the Rowett Research Institute and Experimental Farm.

UNIVERSITY OF EDINBURGH

A. Schools of *Theology, Law, Medicine* (including *Tropical Medicine*), *Veterinary Science, Music, Art, Commercial Science, Engineering, Mining, Agriculture, Forestry, Education.*

B. Post-graduation Courses are provided in the following amongst other subjects :

Latin ; *Greek* ; *Classical Archæology* and *Hellenic Art* ; *Greek* and *Roman History* ; *English Literature* and *Rhetoric* ; *French Literature* ; *German Historical Grammar* and *Literature* ; *Italian* ; *Literary Relations* of England and Italy during the seventeenth, eighteenth and nineteenth centuries ; *Spanish, Mediæval Text* and Linguistic problems (the Advocates' Library has a specially interesting collection of old and rare Spanish books) ; *Semitic Languages* ; *Theology*, by the University Professors and the staff of New College and of Coates Hall ; *Logic, Metaphysics, History of Philosophy* and *Ethics* ; *Psychology* ; *Education* ; *Economics* ; Pure and Applied *Mathematics* ; *Natural Philosophy* ; *Chemistry* (Note—In this Department a new building with complete equipment for teaching and research work has recently been erected at a cost of over £200,000) ; *Zoology* ; *Botany* ; *Geology* ; *History* ; *Constitutional History* ; *Scottish History* ; *Engineering* ; *Law* ; *Medicine* ; *Forensic Medicine* ; *History of Medicine* ; *Pharmacology* ; *Gynæcology* ; *Pathology* and *Bacteriology* ; *Psychiatry* ; *Surgery* ; *Therapeutics* ; *Tuberculosis*.

For information regarding the subjects in which the University is prepared to receive candidates for the Ph.D. degree, inquiries should be addressed to the Secretary to the University, or to the Dean of the Faculty concerned.

For information regarding Post-graduation Courses in Medicine application should be made to the Secretary, P.-G. C. in M., New Buildings, Edinburgh.

C. Specialist Subjects :

Celtic. A. Ordinary Course—Open only to students who have passed a preliminary test. B. Course for graduates—Modern and Middle Gaelic texts ; Middle Irish Grammar ; Gaelic Literature, Philology, etc. C. Honours Courses, including Manx, Old Irish, History of Celtic Britain and Ireland and of the Celtic Church, Comparative Philology. *Sanskrit and Comparative Philology*, with *Indian Religion and Philosophy*. *Arabic*, Junior, Senior and Honours Courses. *Scottish History and Palæography*. A. Ordinary Course. B. Honours Course, designed to aid students in dealing with original authorities. C. Palæography, directed mainly to the practical study of Scottish records. *Colonial* and *Indian History*. A. Ordinary Course—divided into *a*, the old Colonial System (to 1783) ; *b*, the Self-governing Dominions ; *c*, India, Crown Colonies, and Dependencies. B. Honours Course. The Self-governing Colonies since 1837. *Fine Art*. Graduation Course—The History and Theory of the Fine Arts from the earliest manifestations of Art in primitive civilization, through Egypt and Babylonia, and the Classical, Early Christian, and Mediæval epochs, to the more modern developments of Painting and the other arts in our own days. *Geography*. A. Ordinary Course covering cartography, climatology, oceanography, and political and economic geography, especially of the Mediterranean region and Central and Western Europe. B. Honours Course—Economic Geography, History of Geography,

Historical Geography, Economic Ethnography. The Diploma in Geography is obtainable by graduates of other universities. *Actuarial Science.* There is a Diploma in Actuarial Mathematics, the teaching for which is provided by the Faculty of Actuaries and the University jointly. *Mathematics.* The Mathematical Institute (a large separate building) contains a Mathematical Laboratory for advanced practical computations. *Astronomy.* Lectures at the University, practical exercises at the Royal Observatory, Blackford Hill. *Agriculture.* The course includes the History of British Agriculture, Indian and Colonial Agriculture, etc. *Forestry.* The course includes Indian Forest Trees; practical work at Dreghorn and in various British and French woods. *Veterinary Science.* The course includes the Origin and History of the more important Domestic Animals; Genetics in relation to Animal Breeding.

UNIVERSITY OF GLASGOW

A. Schools *Theology, Law, Medicine, Pharmacy* (Royal Technical Coll.), *Naval Architecture* and *Marine Engineering, Engineering, Metallurgy* (R. Tech. Coll.), *Mining, Agriculture* (West of Scotland Agricultural Coll.), *Education.*

B. Subjects in which the University is prepared to receive candidates for the Ph.D. degree:

In relation to the above, candidates should submit their applications to the Clerk of Senate, giving details of the subject or subjects which it is proposed to study. The University is able to arrange for Post-graduation work in the following: *English, History* (Modern and Mediæval), *Scottish History and Literature, Constitutional Law and History, Logic, Moral Philosophy, Political Economy* (including *Political Philosophy, Social Economics* and *Economic History*), *Education, Latin, Greek, French, German, Italian, Celtic, Russian, Hebrew, Arabic, Mathematics, Natural Philosophy* and *Applied Physics, Chemistry, Astronomy, Botany, Zoology, Geology, Geography; Civil, Electrical, Mining, Chemical Engineering; Theory and Practice of Heat Engines, Naval Architecture* with *Marine Engineering; Anatomy, Physiology, Physiological Chemistry, Materia Medica, Pathology, Bacteriology, Public Health, Forensic Medicine, Medical Pædiatrics, Practice of Medicine, Surgery, Midwifery, Obstetrics* and *Gynæcology*; *Divinity, Biblical Criticism, Ecclesiastical History*; *Scots Law, Conveyancing, Mercantile Law, Civil Law, Public International Law, International Private Law, Jurisprudence.*

Note.—Subdivisions of the above subjects are not detailed here. Information as to these can be had from the Clerk of Senate.

The Glasgow Post-graduate Medical Association offers exceptional opportunities for advanced study. Among others, courses may be had in the following: *Clinical Medicine* (*e.g.* Diseases of the Nervous System, Diseases of the Heart), *Infectious Fevers* and *Tuberculosis, Clinical Surgery, Diseases of the Eye, Obstetrics, Venereal Diseases, Diseases* of the *Ear, Nose* and *Throat, Children's Diseases, Gynæcology, X-rays, Skin*

Diseases. (Application for information should be made to the Secretary, Dr. James Carslaw, 6 Woodside Crescent, Glasgow, C.3.)

For information regarding the *Diploma in Public Health*, application should be made to the University Registrar.

C. Specialist Subjects: The Senate, with the approval of the University Court, has recently instituted for Graduates and other advanced students (chiefly from Universities overseas), Post-graduate Diplomas and Certificates for Special Study in Arts. The subjects at present recognized for special study are: *Islamic History, Greek History and Archæology, Roman History and Antiquities, Comparative Philology, Hellenistic Greek, Psychology.*

Royal Technical College, Glasgow

Provision is made for post-graduation studies of candidates for Ph.D. and other higher degrees, and the Associateship of the College is awarded to qualified students who have taken an approved course of advanced study and research. Special apparatus is available for research in the following subjects:

Technical Chemistry. Operations in industrial Chemistry. The Experimental plant includes filter and hydraulic presses, vacuum pan, double-effect evaporator, etc. Fuels, Oils, Dyes and Dyeing. The *School of Sugar Manufacture* forms part of this department and includes plant for experiments on a large scale. *Metallurgy*: Physical properties of metals and their alloys, and of slags and refractories. Apparatus for determination of thermal, electrical and magnetic properties; dilatation determinations; thermionic emissivity of metals. *Strength of Materials*: Strength and fatigue of materials at high temperatures and in different atmospheres. *Mechanical Engineering*: Losses in steam nozzles and in fixed and moving turbine blades; temperature distribution in internal combustion engines; heat transmission from fluid to fluid, across metal surfaces; frictional resistances, etc. Advanced lecture courses are also given in special branches of technical dynamics such as: critical speeds of turbine shafts, torsional oscillations of crank and propeller shafts; stresses in turbine discs, etc. *Electrical Engineering*: Railway electrification; all types of electrical machinery; interference with communication circuits by power circuits; domestic electrical apparatus Advanced courses deal with turbo-alternators, electric traction, etc. *Hydraulic Engineering*: Experimental study of losses in water flow and of the action of water in turbine and reciprocating pumps.

Composition fee, twenty-five guineas per annum.

UNIVERSITY OF ST. ANDREWS

A. Schools of *Theology, Medicine, Engineering.*

B. Provision is made for advanced study and research in the following departments:

Latin, Greek, Hebrew, English, French, German, Philosophy, Psychology on its philosophical side, and more particularly in its relation to Theory of Knowledge; *Moral Philosophy, Moslem Philosophy* and *Religion, History, Scottish History, Ecclesiastical History, Mathematics, Natural Philosophy, Chemistry*, especially carbohydrates and sugars, Constitution of Natural Products, Essential Oils, Optical Activity; *Zoology*, including work at the Gatty Marine Laboratory in St. Andrews Bay; *Botany, Geology, Physiology*, especially the Ductless Glands and Metabolism; *Ophthalmology, Bacteriology*.

UNIVERSITY OF BELFAST

A. Schools of *Law, Medicine, Dental Science, Commercial Science, Civil Engineering, Applied Science* (Municipal College of Technology), *Education*.

B. Subjects in which the University is prepared to accept students for the Ph.D. or other higher degree. Application for admission to courses of Post-graduation study will be considered as and when received.

C. Specialist subjects.

In conjunction with the Ministry of Agriculture, the department of *Agricultural Chemistry* is responsible for research work in Animal Nutrition and Soils and Plant Nutrition; the department of *Agricultural Botany* has charge of "Seed Testing" and Plant Pathology Research in Northern Ireland. Extensive laboratories are in course of erection. Ample facilities also exist for Post-graduation work on Plant Genetics and Animal Hygiene at the Plant Breeding and Animal Pathology laboratories of the Ministry of Agriculture. *Naval Architecture*. Ship Design and Construction, Stability and Oscillation of ships, Resistance and Propulsion of ships. *Chemical Technology*. Bleaching, Dyeing, Finishing and Printing of Textile fibres and fabrics. *Textile Technology*. Flax culture, preparation and spinning, designing and colouring of woven fabrics; Textile costing, testing and analysis; weaving mechanism; Mill and Factory equipment and administration. The Departments of *Bio-chemistry* and *Bacteriology* afford facilities for Post-graduation research on these subjects.

UNIVERSITY OF DUBLIN, TRINITY COLLEGE

For information regarding courses leading to the degree of Ph.D. in the various Faculties; to the degree of Master in the Faculties of Engineering, Surgery and Midwifery; and to the degree of Doctor in the Faculties of Divinity, Law, Medicine, Science, Literature and Music, application should be made to the Registrar, Trinity College, Dublin.

A pamphlet setting forth the facilities for advanced study and research can be obtained on application to the Registrar.

NATIONAL UNIVERSITY OF IRELAND

A. Schools of *Theology* (St. Patrick's College, Maynooth), *Law* (University Colleges of Dublin, Cork, and Galway), *Medicine* (Dublin, Cork, and Galway), *Dental Science* (Dublin and Cork), *Veterinary Science* (Dublin), *Music* (Dublin and Cork), *Architecture* (Dublin), *Commercial Science* (Dublin, Cork, and Galway), *Engineering* (Dublin, Cork, and Galway), *Agriculture, Forestry,* and *Horticulture* (Dublin), *Education* (Dublin, Cork, and Galway).

XXVII

A LIST OF CENTRES OF RESEARCH OUTSIDE THE UNIVERSITIES AND UNIVERSITY COLLEGES

RESEARCH STATIONS UNDER THE DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

1. National Physical Laboratory, Teddington, Middlesex. The Laboratory comprises the following Departments: Physics, Electricity, Metrology, Engineering, Aerodynamics, Metallurgy and Metallurgical Chemistry, William Froude National Tank.
2. H.M. Fuel Research Station, Blackwall Lane, Greenwich, S.E.10.
3. Geological Survey of Great Britain and Museum of Practical Geology, 28 Jermyn Street, S.W.1.
4. Forest Products Research Laboratory, c/o Royal Aircraft Establishment, S. Farnborough, Hants.
5. Building Research Station, Bucknall's Lane, Garston, near Watford.
6. Radio Research Station, Ditton Park, Langley, Bucks.
7. Chemical Research Laboratory, Teddington, Middlesex.

OTHER CENTRES OF RESEARCH

8. British Museum (Natural History), Cromwell Rd., London, S.W.7.
9. Imperial Institute, South Kensington, London, S.W.7.
10. Imperial Bureau of Entomology, Natural History Museum, Cromwell Road, London, S.W.7.
11. Imperial Bureau of Mycology, 17 Kew Green, Kew, Surrey.
12. Royal Botanic Gardens, Kew, Surrey.
13. National Institute of Agricultural Botany, Cambridge.
14. Rothamsted Experimental Station, Harpenden, Herts.
15. Empire Cotton-Growing Corporation, Millbank House, 2 Wood Street, Millbank, London, S.W.1.
16. Harper Adams Agricultural College, Newport, Salop.
17. Midland Agricultural and Dairy College, Sutton Bonington, Loughborough.
18. Seale-Hayne Agricultural College, Newton Abbot, Devon.

19. The West of Scotland Agricultural College, 6 Blythswood Square, Glasgow.
20. East of Scotland Agricultural College, 13 George Square, Edinburgh.
21. North of Scotland College of Agriculture, 41½ Union Street, Aberdeen.
22. Animal Diseases Research Association (Scotland), 83 Buccleuch Street, Glasgow.
23. Scottish Society for Research in Plant-Breeding, Corstorphine.
24. Research Institute in Animal Pathology, Royal Veterinary College, Camden Town, London, N.W.1.
25. Veterinary Laboratory of the Ministry of Agriculture and Fisheries, Weybridge.
26. Horticultural Research Station, Walthamstow.
27. Horticultural College for Women, Swanley, Kent.
28. Horticultural Research Station, East Malling, Kent. (Chiefly fruit and hops.)
29. Experimental and Research (Glasshouse) Station, Cheshunt.
30. John Innes Horticultural Institution, Mostyn Rd., Merton, London, S.W.19.
31. Scottish Marine Biological Association, Millport, Scotland.
32. Marine Biological Association of the United Kingdom, The Laboratory, Citadel Hill, Plymouth.
33. Davy-Faraday Research Laboratories of the Royal Institution of Great Britain, 20 and 21 Albemarle St., London, W.1. Director —Sir Wm. Henry Bragg, K.B.E., M.A., D.Sc., F.R.S.
34. Industrial Institute, 102 Belgrave Road, London, S.W.1.
35. National Institute of Industrial Psychology, 329 High Holborn, London, W.C.1.

[Persons wishing to avail themselves of the resources of any of the above centres are advised to call in the first instance for suggestions and advice on the Ministry of Agriculture and Fisheries in London, or the Board of Agriculture in Scotland, if the subjects in which they are interested fall within the purview of these Departments, and in regard to centres 1 to 7 on the Department of Scientific and Industrial Research.]

Research Associations established under the Government Scheme of Industrial Research

British Photographic Research Association, 30 Russell Square, London, W.C.1.

British Scientific Instrument Research Association, 26 Russell Square, London.

British Research Association for the Woollen and Worsted Industries, "Torridon," Headingley, Leeds.

Research Association of British Motor and Allied Manufacturers, 15 Bolton Road, Chiswick, London, W.4.

British Boot, Shoe and Allied Trades Research Association, Regent House, Kingsway, London, W.C.2.

British Empire Sugar Research Association, 3/5 Old Queen Street, London, S.W.1.
British Cotton Industry Research Association, Shirley Institute, Didsbury, Manchester.
British Iron Manufacturers' Research Association, Atlantic Chambers, Brazennose Street, Manchester.
Linen Industry Research Association, Lambeg, Belfast.
Research Association of British Rubber and Tyre Manufacturers, 105/107 Lansdowne Road, Croydon, Surrey.
British Association of Research for Cocoa, Chocolate, Sugar, Confectionery and Jam Trades, 22 Buckingham Gate, London, S.W.1.
British Food Manufacturers' Research Association, 22 Buckingham Gate, London, S W.1.
British Non-Ferrous Metals Research Association, Athenæum Chambers, 71 Temple Row, Birmingham.
British Refractories Research Association, 22 Surrey Street, Strand, London, W.C.2.
Scottish Shale Oil Scientific and Industrial Research Association, 53 Bothwell Street, Glasgow.
British Launderers' Research Association, 17 Lancaster Gate, London, W.2.
British Leather Manufacturers' Research Association, 26 St. Thomas' Street, London, S.E.1.
British Cutlery Research Association, P.O. Box 49, Sheffield.
British Electrical and Allied Industries Research Association, 19 Tothill Street, London, S.W.1.
British Motor Cycle and Cycle Car Research Association, "The Towers," Warwick Road, Coventry.
British Silk Research Association, Kingsway House, Kingsway, London, W.C.2.
British Cast Iron Research Association, Central House, New Street, Birmingham.
Research Association of British Flour Millers, 40 Trinity Square, London, E.C.3.
British Colliery Owners' Research Association, c/o The Mining Association of Great Britain, General Buildings, Aldwych, W.C.2.

[The following notes are based on replies received to an inquiry as to what opportunities are available at these centres for research by visitors from outlying parts of the Empire.]

3. THE GEOLOGICAL SURVEY AND MUSEUM assists students and others doing research as follows: (*a*) Palæontology, Petrology and Mineralogy; the collections of British fossils, rocks, and minerals are always available under the guidance of the officer in charge. If sufficient reason is shown specimens may be lent out. Microscopes and all necessary apparatus are provided in the Survey's laboratories. (*b*) Mapping and field work. In the library large scale maps of all parts of Britain which have been geologically surveyed are open for reference, and often the officers who

made the maps are at hand to explain points of difficulty. (*c*) The library is especially rich in foreign surveys and in British geological literature. The public are admitted freely.

8. BRITISH MUSEUM (NATURAL HISTORY). Departments: Zoology, Entomology, Geology (Palæontology), Mineralogy, Botany. In addition to the specimens exhibited in the public Galleries, much larger series are contained in the study-collections, which can be consulted or used for purposes of research by duly qualified workers. The function of the Museum is primarily to preserve representatives of the animals and plants (including fossils) of the entire world and of such inorganic natural productions as minerals, rocks, and meteorites. The systematic determination, description, and classification of this material constitute the principal research-work of the scientific staff (48 members) and other helpers. This forms the basis of further scientific research carried on either inside or outside the Museum, such as the study of variation, methods of organic evolution, geographical distribution of animals and plants, correlation of strata, chemical and physical properties of rocks and minerals, study of crystals. All these branches of science may in turn be applied to the solution of practical problems.

9. IMPERIAL INSTITUTE. The principal object of the Institute is to promote the utilization of the raw materials of the Empire, and the investigations carried out in its laboratories are primarily directed to this end. The work includes the examination of all kinds of plant products and minerals; special laboratories have also been installed for the testing of timbers, rubber, cement and ceramic materials. The results of the principal investigations are published in the quarterly bulletin of the Institute and in papers contributed to scientific and technical societies. Valuable information relating to the composition, properties, etc., of raw materials of all kinds has been accumulated in the course of the work, and the Institute will be glad to assist overseas research workers dealing with such materials by supplying any available information regarding particular products in which they are interested. Arrangements have been made in special cases for workers from overseas to carry out investigations in the laboratories of the Institute.

The *Imperial Mineral Resources Bureau* was amalgamated with the Institute in 1925.

10. IMPERIAL BUREAU OF ENTOMOLOGY. An information and identification bureau to assist economic entomologists throughout the Empire. The publications include the *Review of Applied Entomology*, Series "A" (Agricultural) and Series "B" (Medical and Veterinary); the *Bulletin of Entomological Research*; and the *Zoological Record*, part "Insecta." A large lending library is available.

11. IMPERIAL BUREAU OF MYCOLOGY. Mycologists from overseas are admitted to its laboratories to the extent to which space is available. A large lending library of pamphlets is maintained. *Review of Applied Mycology*, published by the Bureau monthly, contains detailed abstracts in English of all work published in any part of the world.

12. ROYAL BOTANIC GARDENS, KEW, afford to botanists, especially from the Colonies, facilities for carrying out scientific investigations in the Library, Herbarium, Economic Museums, and the Jodrell Laboratory. The principal botanical work carried out is concerned with the preparation of Colonial Floras and the naming of plant collections from abroad. Information is also supplied on botanical matters to all parts of the Empire. Research work is carried out on matters relating to Economic, Systematic, and Phytogeographical Botany and also in Mycology. Botanists should apply to the Director for permission to work in the Herbarium or in the Laboratory.

13. THE NATIONAL INSTITUTE OF AGRICULTURAL BOTANY, Huntingdon Road, Cambridge, was established in 1919 to improve the yield and quality of farm crops. The two main branches of the work are (*a*) Crop Improvement, covering field trials of farm crops at six regular sub-stations in England and Wales, and occasionally at other centres, the distribution of seed of improved varieties, and at the Potato Testing Station, Ormskirk, the official trials of potatoes for immunity from wart disease; (*b*) Official Seed Testing Station for England and Wales at Cambridge, which makes laboratory tests of the purity and germination of seed samples, and undertakes research work on seed problems. In approved cases facilities would be given for post-graduation research. Reports of work done are issued in the Institute's *Journal*. Periodical meetings of Fellows of the Inst. are held for discussion, etc. A course and examn. in the theory and practice of seed testing will be held in the summer of 1926; probable fee for course (four to five weeks), £5 : 5s.; for examn., £1 : 1s.

14. THE ROTHAMSTED EXPERIMENTAL STATION, HARPENDEN, HERTS, founded in 1843, is controlled by the Lawes Agricultural Trust (Endowment Fund, £100,000), with which the Incorporated Society for Extending the Rothamsted Experiments (founded 1904) co-operates. Annual grants are received from the Ministry of Agriculture, which also gives to the Capital Funds of the Incorporated Society £1 for every £1 raised by it for an approved purpose. The Station includes extensive laboratories for the study of Plant Nutrition and Soil Problems and Plant Pathology, an area of 300 acres of land for the purpose of Farm and Experimental Fields, and a Library of 15,000 volumes.

Provision is made for Post-graduate Research work, and for studies by agriculturists and others on leave from Agricultural Departments in the Empire.

15. EMPIRE COTTON-GROWING CORPORATION subsidizes research by studentships, grants to institutions for research, etc., and is now establishing a Cotton Research Station in Trinidad, where the chief subjects of study will be the genetics and physiology of the cotton plant.

16. HARPER ADAMS AGRICULTURAL COLLEGE provides facilities for research workers in Agriculture, or in Chemistry, Mycology, Entomology or Economics in their application to Agriculture. The National Institute of Poultry Husbandry is located at the College, and provides

extensive facilities for poultry research. Reports are published in the form of separate bulletins as well as in journals, such as the *Journal of Agricultural Science*, *Bio-chemical Journal*, and *Annals of Applied Biology*.

17. MIDLAND AGRICULTURAL AND DAIRY COLLEGE. Visitors admitted for research work in the Chemistry Laboratories, or in Dairying or Costings, at 54s. per week, including board and lodging. Reports on experiments and small matters of research are issued from time to time.

18. SEALE-HAYNE AGRICULTURAL COLLEGE. Of the college farm (339 acres with a subsoil of sandstone and shale) 20 acres are devoted to field experiments. There are 100 small botanical plots. The research work is chiefly in connexion with insect and fungous pests. Experts from overseas proposing to visit the College would be welcomed, and arrangements could probably be made for them to work there temporarily. Results of experiments are published in pamphlets.

19. THE WEST OF SCOTLAND AGRICULTURAL COLLEGE, GLASGOW. Applications by experts employed by the Government or Industrial Corporations in the British Empire overseas for permission to visit the College or for copies of bulletins, will receive attention.

21. NORTH OF SCOTLAND COLLEGE OF AGRICULTURE. Experiments on farm crops on the College Farm at Craibstone, near Aberdeen; research work in Soils and Drainage and in Entomology; results of experiments and research published in bulletins.

22. ANIMAL DISEASES RESEARCH ASSOCIATION (SCOTLAND). New laboratories at Moredun, Liberton, Edinburgh, to be ready in March 1926. Work done chiefly in connexion with diseases of sheep and "Grass disease" of horses. Temporary workers from overseas will be welcomed and given every facility available when the new laboratories are open.

27. HORTICULTURAL COLLEGE FOR WOMEN, SWANLEY, conducts investigations into insect pests and fungus diseases of cultivated garden plants. Students on leave from other countries will be welcomed.

29. EXPERIMENTAL AND RESEARCH STATION (GLASSHOUSE STATION), CHESHUNT. Research workers have been admitted to the laboratories for short periods when space was available. Reports are widely circulated.

30. JOHN INNES HORTICULTURAL INSTITUTION, Merton Park, London, S.W.19, promotes researches in various subjects connected with Horticulture, especially Plant-breeding, Cytology, and Mycology. Certified persons desirous of conducting work coming within the scope of the Institution are given facilities freely.

31. SCOTTISH MARINE BIOLOGICAL ASSOCIATION, Millport, N.B., provides facilities for research workers: table space rental 10s. 6d. per

week, including loan of microscope and use of ordinary reagents, library and reference collections, boats and collecting appliances when available.

32. MARINE BIOLOGICAL ASSOCIATION (Plymouth Laboratory) is always glad to receive visitors from abroad at the laboratories and to help them. Working tables can be rented (30s. a week) or obtained by nomination. Special facilities for fishery investigations. Results of researches are published in the Association's and other Journals.

34. THE INDUSTRIAL INSTITUTE, 102 Belgrave Road, S.W.1. Founded 1925 for the promotion of scientific research into those questions of industrial economics and industrial ethics which touch the relations and interests of the groups into which the development of the industrial system has divided the nation. It is constituted on a non-party basis, and it is expressly laid down that "it will not be concerned to maintain private ownership nor to develop public ownership," its object being "to study things as they are, and by the light of knowledge so gained to form conclusions which may be put into practice and tend towards improvement of the conditions of industrial life." A Committee has been appointed to take charge of each of four lines of work, and a sub-committee has undertaken the preparation of a "map" of the whole range of knowledge bearing on the general question of "Balance," so that the actual knowledge at present available should appear in its proper relations. The "map," it was agreed, should also show the researches at present in progress in different parts of the world which bear on the question. Thus the gaps in the knowledge needed for the practical survey of the whole problem would be clearly presented.

35. NATIONAL INSTITUTE OF INDUSTRIAL PSYCHOLOGY, 329 High Holborn, London, W.C.1. *Director*—C. S. Myers, C.B.E., M.D., Sc.D., F.R.S. The association studies the human factors which enter into industry and commerce and applies the results in practice. On behalf of firms it conducts investigations into vocational selection, movement study and the influence of rest pauses, lighting, humidity, ventilation, seating, methods of payment, advertisement, etc., on output. In its own laboratories it offers vocational guidance to individuals, based on mental and bodily tests. It provides lectures and practical work suitable for the requirements of the new Academic Diploma in Industrial Psychology in the Univ. of London. It also grants *Research Studentships* (5 in 1924) in those subjects. It has recently received a grant of £6000 from the Carnegie United Kingdom Trust for further research in vocational psychology. *Journal*, quarterly. Training Courses for School Teachers in the principles and methods of intelligence testing are organized.

THE BRITISH SCIENTIFIC INSTRUMENT RESEARCH ASSOCIATION conducts research into problems pertinent to the manufacture and use of scientific instruments, including optical, surveying, nautical, and electrical instruments, and electro-medical and X-ray apparatus, and also into optical glass. It has headquarters' laboratories at 26 Russell

Square, London, W.C.1, and researches are prosecuted in universities, technical colleges, works laboratories and works. Students are not admitted to work in the Association's laboratories. The research reports are, in general, confidential to members of the Association and to certain Government services, but some are published from time to time, either in scientific journals or separately for general circulation. The annual reports of the Association are distributed to certain public libraries, etc., at home and abroad, but otherwise are available only to members. Among the institutions receiving them are: the Research Council Library, Parliament Buildings, Ottawa, Canada; Institute of Science and Industry, 314 Albert St., East Melbourne, Australia; Advisory Board of Industry and Science of the Union of S. Africa, New Law Courts, Johannesburg.

THE BRITISH RESEARCH ASSOCIATION FOR THE WOOLLEN AND WORSTED INDUSTRIES awards Research Fellowships and Advanced Scholarships tenable at Universities and Colleges, but up to the present has not admitted students to work in its private laboratories. The results of research carried out at the headquarters of the Association are in some cases published in the *Journal* of the Textile Institute or in the *Journal* of the Society of Dyers and Colourists. Other reports are retained in the first instance for private circulation to members of the Association, but may subsequently be released for general circulation.

BRITISH EMPIRE SUGAR RESEARCH ASSOCIATION receives reports from its travelling research chemist, who studies the problems of sugar productions on the spot. Many papers have been published in the *International Sugar Journal*.

BRITISH COTTON INDUSTRY RESEARCH ASSOCIATION does not admit students to work in its laboratories, but most of its work is released for publication, and appears first as *Shirley Institute Memoirs* and then in the *Journal* of the Textile Institute, 16 St. Mary's Parsonage, Manchester.

LINEN INDUSTRY RESEARCH ASSOCIATION. Investigators are admitted to work in the Association's Research Institute in furtherance of its objects and in preparation for higher university degrees. The work includes the investigation of problems arising in all branches of the industry, from the propagation of seed to complete production of finished goods. Many memoirs of results of researches are published in various journals, and others are circulated to members.

THE RESEARCH ASSOCIATION OF BRITISH RUBBER AND TYRE MANUFACTURERS has a technical library and information Bureau at their Laboratories at 105/7 Lansdowne Road, Croydon, to deal with inquiries from its members, Government Departments, and scientific workers in the Dominions. Carries out research, chiefly of a confidential nature, through its own staff. A *Summary of Current Literature*, containing abstracts of technical and scientific publications relating to all branches

of the rubber industry, is issued to members and subscribers each month.

THE BRITISH NON-FERROUS METALS RESEARCH ASSOCIATION aims to cover the whole field of the non-ferrous metals and their alloys. Membership of the Association is open to individuals and companies in any part of His Majesty's Dominions who have industrial interests in non-ferrous metals whether as smelters, manufacturers, or users. The researches of the Association are carried out in approved academic and other institutions, or in works, and the results are in the first instance reserved to members, although much is being published. So far as possible, the Association will be pleased to inform scientific workers from the Overseas Empire of the work it has undertaken or already published.

BRITISH ELECTRICAL AND ALLIED INDUSTRIES RESEARCH ASSOCIATION. Has no laboratory of its own. Arranges programmes of research and carries them out with the help of makers' laboratories and Universities and Technical Colleges (sometimes under contract with members of staffs or students), in power stations, etc. Aims at securing co-ordination of research work and realization of maximum benefits from it. Reports published generally in the *Journal* of the Institution of Electrical Engineers.

BRITISH SILK RESEARCH ASSOCIATION. Research results of general interest are usually published by the Journal of the Textile Institute. Provision is not normally made for circulation of unpublished reports nor for admission of research students to the laboratory, but special applications addressed to the Secretary may be considered.

BRITISH CAST IRON RESEARCH ASSOCIATION of manufacturers of pig iron, grey iron, and malleable castings of all kinds, for research in the constitution, methods of production and after-treatment of these and auxiliary materials, such as refractories, sands, fuels, slags, fluxes, etc. Their Central laboratory is at Birmingham, but most of the research work is at University and other research laboratories at Sheffield, Birmingham, Manchester, etc., and at the National Physical Laboratory. Investigators interested in any phase of research work on cast iron may use the Association's Information Bureau, and the Director is prepared to co-operate in planning investigations. Quarterly bulletin of abstracts and information on current metallurgical literature. General account of the work of the Association printed in the Proceedings of the Empire Mining and Metallurgical Congress, 1924.

INDEX OF NAMES

Aaronowitch, J., 473
Abbot, C. C., 264
Abbott, E., 49
G. H., 444
W. F., 370
Abbott-Smith, G., 355
Abdul Aziz, M., 553
Abdul Bari, 550
Abdul Hai, 550
Abdul Hakim, Khalifa, 550
Abdul-Hamid, M.A., 556
Abdul Hamid Md., 534
Abdul-Hamid Khan, 550
Abdul Lateef, Syed, 550
M., 551
Abdul Qadir Siddiqui, 551
Abdul Qavi Fani, 535
Abdul Wasay, 551
Abdullah, Sh., 505
Abdur-Rahman, 531, 532
Abdur Rahman Khan, 550, 551
Abelheim, A., 493
Abel-Smith, L. R., 196
Abell, T. B., 95
Sir W., 141
Abercrombie, L., 82
L. P., 91
Abhyankar, K. V., 516
Abhyanker, W. S., 518
Ablett, R., 93
Abraham, J. W., 357
Abrahams, A., 157
Abramovitch, Miss, 445
Abul-Hasan, 505
Acharya, B. G. S., 533
N. M., 558
P. K., 508
Acland, H. D., 460
Adair, E. R., 123, 356
G. S., 50
Adam, A. K., 246
D., 283
D. T., 75
Sir F., 187
H. R., 491
J., 331
Adami, J. G., 90
Adams, A. W., 33, 37
D. K., 284
F. B., 457
H. C., 443
H. M., 53
H. P., 25
H. S., 456
Sir J., 476
J. E., 161
M. I., 238
P. E. H., 195
S. M., 398
T. D., 456
W. G. S., 194, 196
Adamson, A., 183
A. M., 294
H. G., 155
J., 464
J. D., 369
Sir J., 483
Sir J. E., 477
Mrs. R., 84
R. S., 471
Adcock, F. E., 44, 50
Addis, Sir C. S., 568
Addison, M., 401
O. L., 172
S. S., 430
Adhikari, P. B., 513
Adie, R. H., 50
Adler, S., 96, 497
Adrian, E. D., 45, 52
Adshead, S. D., 116
Advani, M. H., 518
T. M., 517
'Afifi Abu'l-'Ala, 47
Afonso, F. C., 516
Aftab Ahmad Khan, 505
Aga M. Abbas Shoostry, 542
Aga-Khan, 505
Agar, W. E., 433
Agar-Hamilton, J. A., 485
Agar - Hyder - Hasan, Syed, 546
Agarwal, K. D., 535
Agarwala, M. L., 514
Agha Haidar, Sd., 514
Agharkar, S. P., 520
Agius, T., 498
Agnes, M., 401
Agnihotri, G. P., 547
P. D., 513
Aherne, C., 318
Ahmad, N., 527
Kamal-uddin, 524
K., 528
M., M.A., 527
M., 528
S. T., 558
Z.-u.-d., 505
Ahmad-Khan, M. Ali, 510
Md., 550
Ahmad-Shah, E., 535
Ahmed, M., 517
H. S., 557
S. S., 557
Ahmed Husain, S., 551
Aitken, A. C., 272
G. W. A., 44
H., 273
R., 274
Aiyangar, K. R. Ramaswami, 540
K. V. R., 539, 540
S. Krishnaswami, 537
V. S., 539
Aiyar, G. N., 540
N. C. K., 560
P. E. Subrahmanya, 539
P. V. Seshu, 538
R. K., 539
T. K. D., 537
Aiyyer, S. V., 527
Ajrekur, S. L., 516
Akbar, Md. G., 560
Akbar Ali Musavi, 551
Alam, S. S., 558
Albiston, H. E., 433
Albright, E., 413
Alcock, H., 437
Alderson, Mrs., 77
W. E., 73
Aldren Wright, J., 47
Aldrich-Blake, L. B., 166
Alexander, A. B., 369
F., 450
F. H., 77
H., 387
P., 282, 285
R. C., 295
S., 179
W., 464
W. A., 274
W. A., M.A., 387
W. H., 331
W. J., 400
Algar, J., 314
Algie, R. M., 462
Ali, M., 527
Sd. Ishaq, 507
Syed Azhar, 530
Syed Nawab, 516
Ali Ashgar, M. S., 536
Ali-Khan, H., 550
Ali Nami, Sd. Md., 507
Ali Naqi S., 505
Ali Riza Bey, 146
Allan, B. A., 76
F. B., 398
F. J., 157
G. A., 284
G. E., 283
J., 146
J. A., 331
R. G., 546
T. K., 75
Allard, H., 367
O., 384
R., 375
Allardyce, J., 337
Allbutt, Sir C., 63
Allcock, W. B., 49
Allcut, E. A., 399
Allemès, F., 140
Allen, A. J., 124
A. O., 83
C. E., 434
C. J., 90

Allen, C. K., 201
E. M., 54
F., 367
F. M., 300
G. B., 190, 202
G. C., 25
G. L., 305
Sir H. P., 171, 174, 193, 199, 251
H. S., 294
H. W., 434
J. W., 148
L., 400
N. C. B., 432
P. S., 189, 198
R. A., 414
R. G., 316
R. L., 414
T. W., 200
W., 394
Alles, E. C., 566
Allison, J., 294
V. D., 300
W. T., 367
Allmand, A. J., 124
Allpress, C. F., 76
Allum, A. W., 370
Almon, W. B., 344
Alonso, A. M., 94
Alsop, R. H., 430
Alston, L., 49, 51
Altekar, A. S., 514
Alton, E. H., 304, 305, 306
Alty, T., 394
Amar Nath Bali, R., 555
Amar Nath Bhasin, 555
Ameer-Ali, Sd., 534
Amery, G. D., 196
Amir Chand, 555
Amos, A., 42, 48, 61
A. D., 236
Ampt, G. A., 431
Amrita Row, K., 563
Anand, C. L., 554
Ananda Rao, K., 538
Anantapadbanabha Rao, M.C.S., 538
Anderson, A., M.B., 220
Alexander, D.Sc., LL.D., 320
A. G., 266
A. V. M., 433
C. E., 565
E. E., 445
F., 415
F. H., 402
F. J., 540
G. R., 403
Sir H. K., 41, 49
J., Edin., 272
J., F.R.C.S., 295
J., B.Sc., 569
J. B. M., 284
J. G. C., 191, 197
J. N., 538
O., 80
P. J., 263
R. H., 440
R. M., 183
R. Q., 290
Anderson, V. G., 430
W., M.B., 266
W, B.Sc., 183
W., Auck., 462
W. B., 176
Anderton, W. B., 181
Andison, J. G., 400
Andrew, G., 178
J. H., 289
Andrewes, Sir F. W, 160
U., 150
Andrews, C., 450
H. R., 159
H. T., 152
J. P., 136
W. A., 37
Angus, C. F., 53
H. B., 72
H. F., 337
R. W., 399
Anketell, R. J., 450
Annett, H. E., 94, 547
Annunciata, Sister, 539
Anrep, G. V, 120
Ansari, H. A., 550
Anson, C., 202
Antani, N. M., 510
Antarkishen Kichloo, 556
Ante, I. H., 405
Anthony, D. B., 225
Antia, M. J., 517
Anwarul Huk, 508
Appahad, V., 539
Apperly, F. L., 433
Applebey, M. P., 191, 200
Appleton, A. B., 42, 48
E. V., 126
H. W., 218
Appleyard, A., 32
Archambault, G., 376
O., 374
Archer, R. L., 233
R. T., 430
Archibald, E. H., 337
E. W., 360
H. P., 337
M. B., 343
W. L., 328
Ardagh, E. G. R., 399
Ardern, P. S., 462
Argue, R. F., 367
Arkins, P. A., 320
Arkle, J. S., 72
Arkley, L. M., 386
Armes, H. P., 366
Armitage, W. J., 347
W. R. R., 406
Armour, D. J., 172
J. C., 330
J. S., 557
T. R. W., 96
Armstrong, F. W., 483
J. R., 414
L. E., 119
S. R., 301
Arnall, F., 169
Arndt, E., 485, 487
W. F. C., 479
Arnison, W. D., 74
Arnold, E. G., 80
Arnold, F. T., 236
I. D. O., 178
Sir T. W., 145
Arsenault, A. J., 384
Arte, B. R., 516
Arthur, C. L. T., 370
E. R., 398
W., 283
Arulanantham, A., 538
Arundel, D. D., 51
Asana, J. J., 516
Asghar Ali, 553, 556
Ash, E. B., 27
P. A., 444
Ashby, A. W., 229
S. F., 417
Ashcroft, L., 251
L. S., 95
Ashdown, M., 151
Mrs., 256
Ashley, Sir W., 31
Ashraf Shamsi, Sd., 550
S., 506
Ashton, H., 338
T. S., 177
Ashworth, J. H., 272
M. H., 170
Askins, R. A., 37
Askwith, Baron, 150
Asmundson, V. S., 339
Aspinall, A., 417
A., Ph.D., 560
Sir J. A. F., 95
Asrani, U. A., 513
Asselin, E. G., 375
Asthana, N. P., 507
Aston, F. W., 52
Sir G., 118
Athanasia, M., 400
Atherton, W., 374
Athill, L. F. I., 145
Atkin, W. R., 86
Atkins, H. G., 125
J. W. H., 229
Atkinson, A., 481
B. F. C., 53
C. T., 198
D., 178
R. d'E., 193
Atlee, H. B., 344
Atreya, B. L., 513
Attard, G., 499
Attenborough, F. L., 49
Attlee, C. M., 92
Attwater, A. L., 50
Au Tai Tin, 568
Aubert, A., 349
Aubrey, E. R., 254, 256
Aubry, A., 293
H., 376
Auchterlonie, D., 557
Auden, G. A., 26
H. W., 413
Auger, C. E., 400, 412
L. B. A., 384
Aulhorn, Fm. E., 271
Austin, L. J., 388
R. G., 281
Austmann, K. J., 370
Aveling, F. A. P., 127

Averill, C., 295
Awati, P. R., 516
Aydelotte, F., 211
Ayling, E. E., 240
Ayyangar, M. O. P., 538
Ayyar, V. R. V., 539
Azad, S. M. Z. H., 528
Azim-ud-din Ahmad, 557

Ba, V., 559
Ba Sein, V., 561
Ba-Kya, Mg., 560
Baber Mirza, 551
Babington, P., 450
P. L., 47
Babkin, B., 343
Back, I , 161
Bacon, F., 240
J. R , 54
J. W., 314
Badock, S. H., 32
Bagchi, S. C., 521
Bage, F., 438
Bagnall, J S., 344, 345
Bagot, J. C., 294
Bagster, L. S., 437
Bahl, K. N., 535
Baij-Nath-Fiqar, 535
Bailes, S., 76
Bailey, C., 197
C. R., 117
G. P., 47
K. C., 305
K. H., 434
T. G., 145
V. A., 442
W. N., 178
Baillargeon, E., 350
Baillie, H. W., 301
J. B., 80
T. C., 170, 174
W. H. T., 398
Baillie-Reynolds, P. K., 229
Bain, A. M., 531
E. W., 84
J. W., M.Sc., 386
J. W., B.A.Sc., 399
Bainbridge, J. P., 430
Baines, F. T., 80
Baird, A. C., 265
A. F., 382
W., 289
Bairstow, L., 130
Bajpai, V. S., 514
Bakadur, K., 509
Baker, A. T., 218
B. B., 150
E. A., 118, 119
H., 76
H. B., 131
H. F., 42, 51
H. W., 177
J. B., 190, 202
J. F., 236
J. N. L., 192
J. O., 332
J. R., 194
J. W., 37
J. W., M.Sc., 81
L., 36
Baker, M. B., 387
P. J. N., 140
R. K., 394
R. T., 447
W., 176
W. C., 387
Bakewell, E , 333
Bal, D. V , 547
Balcom, A. B., 328
Baldera Upadhyaya, 513
Baldwin, Rt. Hon. S., 269
Balfour, A., 165
Earl of, 41, 269
H., 198
Balfour Brown, F., 46, 132
Balfour-Melville, 271
Bali, H C., 531
R. A N., 555
Balkishan Das, 531
Balkrishna, 518
Ball, E., 33
L., 26
N. G., 564
W. G., 161, 164
W. M., 432, 434
W. V., M.A., 140, 168
W. V , B.A.Sc., 387
W. W. R., 63
Ballantyne, A. J., 284
E. N., 414
Ballou, H. A., 417
Ballu, C. A., 367
Baly, E. C. C., 91
Bamford, P. G., 460
T. G., 25
Bamforth, J., 155
M., 483
Bancroft, H., 196
J. A., 355
M. F., 328
Bandyopadhyaya, C., 528, 530
Banerjea, J. R., 524
P. N., 520
Banerjee, B., 563
B. L., 524
D. N., 527
G. N., 520
H., 524
H. C., 520
H. K., 523
L. M., 522
S., 523
S. C., 524
S. C., Dacca, 527
S. N., 558
Banerji, A. C., 508
D. N., 513
E. N., 509
J. K., 535
K. C., 510
K. C., Benares, 513
K. N., 557
P. L., 514
S., 534
S., Ph.D., 534
Banerji Shastri, A. P., 557
Bangham, D. H., 176
Banister, H., 45
Bankart, A. S. B., 161
Bannerji, A. T., 532
Bannerji, N. V., 532
Bannister, C. O., 95, 98
Banting, E. W , 404
F. G., 404
Bantock, G., 25
Bara, S , 525
Barbados, Bishop of, 65
Barber, C. A., 42
E. A., 198
F. L., 412
H. W., 155
W. T. A., 152, 153
Barbier, J L. A., 229
P., 82
Barclay, A. E., 181
J. H., 72
Barclay-Smith, E., 124
Barcroft, J., 45, 50
Bardhan, S. C., 557
Bardsley, D. A., 182
Barff, H. E., 447
Barger, G., 270
Baril, G H., 374
Barkat Ali, Sh., 550
Barke, E. M., 236
Barker, A. F., 86
A. H., 117
A. S , 81
B. T. P., 32, 33
E., 124, 144, 285
E. P., 246
H., 272
H. E., 97
J. W., 48, 53
M. L., 271
S. M., 150
T. V., 191, 193, 197
W. F., 483
W. G., 476
W. H., 178
Barkla, C. G., 272
Barling, Sir G., 23
Barlow, G., 26
H. E. M , 117
W. L., 360
Barnard, A. T., 333
F. P., 90
R. J. R., 432
S. P., 479
Barnardo, F. A. F., 523
Barnes, A. E., 220
B. F., 137
E., 538
F., 27
H., 49
H. T., 356
S. R., 484
W. E., 43, 51
Barnett, E. de B., 169
L. D., 146
L. E., 459
Baron, W. P., 245
Barooah, J., 504
Barr, J., 247
Barraclough, Sir S. H. E., 443
Barragán, J. V., 136
Barratt, A. J., 24
C., 150
S., 117
W. S., 183

Barnett, B. H., 282
Sir J. W., 432
Barrington, F., 447
Barrington-Ward, J. G., 198
L. E., 172
Barris, J. D., 156
Barron, D. C., 221
V. M., 457
Barrow, F., 137
Barrowclough, H. E., 457
Barry, D. T., 318
F. R., 152
Barss, A. F., 339
Bartlett, A. W., 75
F. C., 45, 51
R. J., 127
Bartolo, A., 498
Barton, E. H., 249
H., 357
Bartrum, J. A., 462
Barwell, H. S., 157
Basak, B. K., 560
R. G., 528
Baskett, R. C., 298
Bassett, H., 250
H. Ll., 235
W. E., 431
Basson, J., 488
Bastable, C. F., 306
Basterfield, S. L., 393
Bastings, L., 69
Basu, K., 521
N. M., 527
R. K., 558
R. M., 560
S., 524
S. K., 513
T. N., 558
Batchelor, F. S., 458
R. C. L., 275
Bateman, J. V., 394
Bates, J. E., 404
L. F., 120
Bath, F., 126
Bathgate, W. I., 457
Batho, E. C., 118
Batley, W. A., 219
Batt, F. R., 93, 98
Battaerd, P., 489
Baudouin, G., 375
J. A., 375, 376
Bauld, W. A. G., 359
Baumann, E. P., 493
Baxandall, F. E., 42
Baxter, E. F., 68, 224
F. H. A., 357
F. W., 355
H. J., 293
J. S., 299, 302, 306
Bayer, A. W., 481
J. G., 393
Bayliss, Sir W., 123
Baynes, N. H., 118
Bayzand, C. J., 192
Bazin, A. T., 360
Beach, D. M., 471
Beachcroft, R. O., 35
Beales, H. L., 217
Bean, R. J., 343
Beard, E., 264
Beare, T. H., 269, 271, 276
Beasley, C. G., 247
Beattie, A. V., 300
Sir C., 471
F. J. R., 299
J. M., 95
R., 177
T., 71
Beatty, E. W., 354
H. A., 405
J., 237
S., 402
Beauchamp, A., 202
Beaulieu, E., 376
J., 384
Beaumont, G. E., 157
I., 301
Beaupré, V. E., 375
Beare, W., 176
Beausejour, R., 384
Beazley, C. R., 25
J. D., 190, 199
Beck, L., 300
Becker, J. G., 493
L., 281
L. van R., 471
Becket, E. M., 246
Beckett, R. E., 80
R. H., 547
S. E., 337
W. E., 197
Beckit, H. O., 192
Beckwith, W. H. H., 345
Bédard, A., 349, 351
Beddard, A. P., 157
Beddows, A. R., 229
Bedford, J., 247
T. G., 45, 212
T. H. B., 84
Beeby, C. E., 461
Beet, A. E., 219
Behan, J. C. V., 434
Behere, N. K., 547
Béique, Hon. F. L., 374
Bélanger, A., 384
Belas, P. E., 318
Belekar, S. B., 547
Belfour, A. O., 299
Bell, A., 75
C. F., 199
C. S., 457
F. G., 458, 459
F. H., 343
H., 179
H. P., 342
I. R., 332
J., M.A., 200, 202
J., 305
J. J., 144
J. W., 358
K. N., 193, 197
M., 132
M. E., 457
P. G., 370
R., 269, 270
R. C., 456
R. J. T., 457
T. H., 370
W. B., 96
W. G., 63
Bell, W. H., 473
Mrs. W. H., 473
Bellamy, F. A., 191
E. F., 191
Bellars, A. R., 35
Bellean, E., 350
Belleisle, H. S., 403
Bellot, H. H., 118
Belvalkar, S. K., 518
Belz, M. H., 432
Bemont, L. H., 357
Benedait, Sir R., 254
Bender, A. P., 472
Benecke, P. V. M., 199
Bengough, E. J., 364
Benham, E. W., 426
F. C., 441
W. B., 456
Benians, E. A., 55
Benner, F., 369
Bennet, C. L., 343
Bennett, A., 292
C. W., 388
D. M., 217
E. K., 44, 49
F. T., 75
G. M., 217
G. T., 49
H. S., 49, 52
L. E., 445
N. G., 163
S. G., 397, 399
T. I., 157
Bennette, H. W. P., 97
Benoit, E. P., 376
Bensley, B. A., 398
Bensly, E., 229
Benson, A. C., 63
C. C., 397, 403
M., 69
W. N., 456
W. T., 274
Bensusan, A., 493
Bentham, J., 83
Bentley, A. O., 247
B. H., 217
F., 69
J. A., 390
W. A., 126
Bentwich, N., 497
Benyon, J. H., 250
Berelowitz, R., 473
Berger, L., 351
Bergeron, O., 350
Bergevin, L., 384
Bergin, F. G., 37
O., 314
W., 318
Bergmann, H., 497
Bern, S. G., 517
Berkeley, G. H. A. C., 156
Bernard, A. V., 498
J. H., 304
M., 401
Bernier, A., 376
L. M. J. A., 350
Berridsford, E. A., 200
Berry, A., 44, 50
A. J., 43, 48
B. M., 431

Berry, D. W., 266
Sir G. A., 257
J. L., 440
R. G., 180
R. J. A., 430
Berthon, H. E., 192, 200, 201
Bertram, F., 539
R. J. S., 75
Berwick, W. E. H., 83
Besant, A. D., 116
Besselaar, G., 481
Best, N. C., 413
Beszant, C. F , 92
Bethune-Baker, J. F., 43, 50
Bétournay, A., 384
Betts, R. L., 380
Beullac, P., 358
Bevan, A. A., 47, 52
E., 218
E. R., 124, 196
T., 183
Beveridge, Sir W. H., 139
Bevers, E. C., 195
Beves, D. H , 50
Bewley, H. T , 307
Bews, J. W., 71, 75, 79, 481
Bexon, D., 246
Beyers, C. F., 494
Beza, M., 127
Bhadkamkar, R. G., 517
Bhaduri, J., 524
S. N., 524
Bhandarkar, D. R., 520
V. S., 516
Bharadwaj, Y., 513
Bhargava, S. P., 510
S. R., 508
Bharucha, P. B., 555
Bhat, V. G., 517
Bhata, Y. S., 508
Bhate, G. C., 518
G. S., 557
Bhatia, M. L., 535
R. N., 534
S. L., 516
Bhatnagar, B. G., 507
S. S., 553
S. S., Benares, 513
Bhatt, B. N., 535
H. M., 517
Bhattacharjee, M. G., 523
Bhattacharya, A., 531
A. J., 534
D. R., 508
K., 514
K. C., 507
N., 513
S. N., 513
Bhattacharyya, B. B., 524
D. K., 558
G. P., 528
H. D., 528
N. C., 524
S. N., 558
S. N., Dacca, 527
U. C., 528
Bholanath Singh, 514
Bhopal, Begum of, 505
Bhose, G., 524
Bhuyan, S. K., 525
Bibby, E. E., 81
J P., 85
Bickersteth, G. L , 282
J. B , 397
M. E., 271
Bickley, W. G., 170
Bieler, E. S., 356
Biffen, Sir R H., 42, 51
Bigelow, H. E., 380
Biggam, J., 289
Bigger, J. W., 307
Biggs, H. F., 194
Bihari Lal Bhatia, 553
Bilimoria, J. C., 560
Billington, W., 27
Binchy, D. A., 315
Bingham, J. A , 280
Binnie, A. M., 192
D., 290
Birch, F. L., 50
J. N., 219
Birkenhead, Earl of, 189
Birkett, G. A., 219
H. S., 359
Birkhead, E., 34
Birley, J. L., 159
Birnie, A., 270, 279
Birrell, J. A., 36
Birtwistle, G., 50
Bisbee, R. C , 94
Bisby, G. R , 368
Bissett, N , 235
Bisson, L. A , 401
Biswas, S. P., 524
Bithell, J., 137
Björkhagen, Im., 123
Bjornson, O., 369
Black, E. I., 94
H., 27
H. H., 414
J. B., 218
K., 567
Blackadder, W., 264
Blackburn, Lord, 269
C. B., 443
E. M., 82
K. B., 75
Blacker, Sir G. F., 159, 167
Blackett, P. M. S., 45, 50
Blackie, A. R., 457
Blackiaw, A., 266
Blacklock, D. B., 96
J. W. S., 285
W., 291
Blackman, E., 118
F. F., 43, 51
V. H., 130
Blackwell, E. M., 150
Blackwood, R. L., 434
Bladen, V. W., 403
Blagden, C. O., 145, 146
J. B., 197
L., 377
Blair, D. M., 280
E. M., 300
S. C., 305
Blais, A., 333
Blakiston, H. E. D., 190, 201
Bland, F. A., 441, 444
Blatter, E , 516
Blatz, W. E , 403
Blease, W. L , 93
Bleek, D. F , 471
Bletcher, H. E., 367
Bligh, J. M., 95
Bliss, S W., 354
Block, I. J., 493
K. S., 150
Blomfield, W. E., 82
Blommaert, W., 489
Bloom, A., 493
Blunt, H. W., 198
T. G. R., 460
Blythen, S., 246
Boardman, E J., 370
Boase, T. S. R , 198
Boden, F. H., 24
J P., 68, 69
Bodenstein, H. D J., 489
Bodmer, H. S., 483
Body, L. A., 68, 69
Bogart, I G., 388
Boggs, T H., 337
Bohle, H., 472
Boillot, F. F., 34
Bolam, H. W., 281
M , 250
R A., 71
T., 270
Bolas, B D., 137
Boldero, H. E A , 157
Bolland, W. C., 168
Bollert, M. L., 338
Bolton, C., 157
H., 35
J. S., 84
Bolton King, E., 198
Bolus, Mrs. F., 471
Bond, H., 42, 53
R. W., 249
W. L., 357
W. N., 251
Bone, W. A., 130
Woutrina A., 218
Bonner, E., 473
Bonnet, P., 441
Bonney, W. F. V., 156
Bonython, Sir L., 427
Boole-Stott, A., 93
Boomer, E. H., 330
Boot, Sir J., 246
Booth, E. H., 442
J. H., 184
S. R., 425
Boothroyd, E. E., 336
Boraston, C. A., 170
Bordeaux, E. F. J., 433
Borden, B. C., 380
Sir R. L., 386
Borenius, T., 116
Borg, J., 498
S , 498
Boroomh, J., 525
Borradaile, L. A., 46, 53
Borthwick, C E. G , 480
P. M., 177
Bosanquet, C. H., 198, 201
W. C., 157
Bose, A. C., 520

Bose, A. C., LL.B , 532
Sir B. K., 546
B. K., 555
D M., 521
G. C., 523
H. T., 508
J. M., 524
M. M., 524
M N., 522
P. C., 558
S N., 528
S. R., 557
V., 546
Boshoff, S. P. E , 482
Bosman, A. M., 485
D. B., 473
J. C., 485
L. P., 473
Boswall, R. O., 183
Boswell, A. B., 94
M. C , 399
P. G H., 92
Botha, M. C , 473
Bott, E. A., 403
R. H., 555
Botting, C. G., 151
Bouchier, E., 202
Boughey, A. H. F., 52
Boulden, F , 218
Boulenger, C L., 148
Boulet, R , 376
Boulton, E. S., 35
W. S., 25
Bouman, A. C., 489
Bourdache, E., 247
Bourdot, J., 539
Bourgeois, B., 376
Bourgoin, J., 377
Bourne, A. W., 159
R., 192
W., 359
Bourque, H., 370
Bourquin, C , 485
Boutin, J., 377
Bouzereau, J. C. M., 236
Boving, P. A., 339
Bowbyes, A. M., 456
Bowell, A. H., 462
Bowen, A. R., 26
E. J., 201
W. H., 47
Bowes, H. G., 831
Bowler, F. T., 251
Bowles, C. W., 483
R. P., 412
Bowley, A. L., 140
Bowman, A , 264
A. A., 283, 288
F., 183
H. L , 193, 199
J. T., 414
T., 189, 199
Bowra, C. M., 201
Bowstead, J. E., 330
Box, C. R., 157
G. H., 125, 152
H. K., 405
P. H., 297
Boxwell, J., 485, 487
Boycott, A. E., 160
Boyd, A., 437
A. J., 538
D. R., 254
D. T., 299
J., 34, 476,
J. C., 523
S., 129
W., B.Sc., 281
W., M.D., 370
Boyd-Wilson, E. J., 464
Boyer, A , 377
Boylan, P., 312, 315
Boyle, C., 317
H. E. G., 154
M , 150
R. W., 332
S. F., 366
T. O'R , 391
T. S., 348
Brabant, F. H., 201
Bradbury, F., 301
J. B., 46, 48
Braddock, A. P., 24
Brade-Birks, S. G., 143
Bradfield, A. E., 233
Bradford, E. J. G., 218
Sir J. R., 116
Bradley, F., 384
O. C., 269, 275
W. J., 441
Bradshaw, F., 75, 76
J. C., 461
Brady, A., 403
O. L., 117
Bragg, Sir W. H., 196
W. L., 179
Brain, C. K., 488
Brame, C. C., 154
Braithwaite, L. R., 85
R. B., 50
Braley, E. F., 69
Brameld, N., 247
Bramfitt, G. N., 402
Brammall, A., 131, 170
Bramwell, E., 274
J. C., 179
Brand, Hon. R. H., 197
Brandin, L. M., 118, 119
Brandson, B. J., 370
Brandwijk, M. G., 492
Branson, W. P. S., 157
Brash, J. C., 23
Braun, L. I., 493
Braunholtz, E. G. W., 45, 50
G. E. K., 193, 239
Brebner, J., 397
J. W., 494
Bremekamp, C. E., 485
Brend, W. A., 156
Brendel, F. C. L., 135
Brennen, C. J., 447
H. G., 283
Brentano, J. C. M., 179
Brereton, E. Le G., 441
Brett, C., 236
G. S., 402
Brett-Smith, H. F. B., 192, 197, 198, 199, 200
Breuil, A., 336
Breul, K., 44
Brewer, F. M., 191
Brewis, G. R., 202
J. T., 180
Bride, T. M , 181
Bridge, J. C., 66, 69, 174
P. G., 524
Bridger, Hon. J. F. E., 565
W., 170
Bridges, A., 196
E. B., 197
J. W., 357, 410
Brierly, J. L., 194, 197
Briffa, J., 498
Brigden, J. B., 448
Bridgmann, R. H., 358
Briggs, E. A., 442
G. E., 43, 51
G. H., 442
H., 272
H. M., 176
Brightman, F. E., 196, 199
Brigstock, W. O., 76
Brij-Narain, 553
Brincker, J. A. H., 157
Brindley, A. E., 182
H. H., 43, 48, 49, 50, 52
Brink, C. P., 479
Brinkworth, H., 132
J. H., 161
Brinsley, F., 131
Brinton, A. J., 494
Briquet, P. E., 364, 365
Briscoe, Sir J. C., 157
H. V A., 71, 75
Bristol, Bishop of, 32
Briton-Jones, H. R., 33
Brittain, F., 49
Britten, L., 483
Brittlebank, C. C., 430
Broad, C. D., 52
W. H., 90
Broadbent, Sir J. F. H., 157
Broadfoot, R. C., 540
Broadhead, H. D., 460
Broadus, E. K., 331
Brochu, M. D., 351
Brock, F. H. C., 170, 173
R. W., 338
Brockbank, E. M., 181
Brockway, K. N., 540
Brockwell, C. A. B., 355
Broderick, F. W., 368
R. A., 27
T. S., 306
Brodetsky, S., 83
Brodie, J. A., 91, 95
W., 280
Brodsky, A., 179
G., 414
Bromhead, C. D., 244
Bromley, L., 161
Bromwich, T. J. I'A., 44
Bronner, R., 433
Bronson, H. I., 343
M. P., 343
Brook, V. J. K., 199, 202
Brooke, A. E., 43, 50
G. E., 567
Z. N., 49
Brookes, E., 486

Brookes, R. C., 95
Brooks, F., 34
F. T., 43, 48
J. C., 180
J. J., 472
Miss, 166
Broome, H. H., 555
Brosseau, A., 351
H. D., 384
Brough, P., 440
R., 280
Brougham, L. A. M., 427
Brovedani, J. H., 388
Brown, A., 403
A., B.Sc., 472
A. E., 522
A. E., LL.B., 525
A. G., 401
A. R., 440
A. S., 450
B. G., 48
C. J., 534
C. J. O., 434
D., 83
D. J. A., 235, 238
E., 357
E. B., 431
E. J., 80
E. M., 299
F. B., 358
F. J., 83
F. R., 295
G., 427
G. B., 269
G. W., 401
I. A., 441
J. G., 339
J. G., D.D., 364
J. M., 368
J. M., LL.D., 453
J. R., 453, 464
K. P., 275
M. K., 445
R. K., 157
R. M., 282
R. N. R., 218
R. W., 368
T., M.Sc., 83
T., 288
T. A., 244
T. G., 225, 237
V., 76
W., 193
Wm. (Aberdeen), 265
W., B.Sc., 568
W., D.Sc., 130
W. J., B.S.A., 413, 414
W. L., 157
W. T., 403
Browne, A. D., 51
E. G., 47, 50
F. J., 274
G. S., 431
P. J., 312
W. R., 441
Browning, A., 282
C. H., 284
E. H., 434
H., 247
Brownlee, H. J., 471
Brownrigg, N., 355
Bruce, A. N., 272
Hon. A., 202
E. L., 387
H., 236
H. A., 405
J. F., 442
J. P., 145
Bruchési, P., 374
Bruère, A. A., 358
Bruford, W. H., 264
Bruhl, P. J., 520
Brummer, N. J., 489
Brune, O., 486
Bruneau, T., 376
Brunet, A., 384
Brunot, F., 123
Brunt, H. D., 355
Bryan, C. W. G., 161
G. H., 233
W. E., 219
W. H., 437
Bryan-Brown, A. N., 201
Bryce, T. H., 280
Buchanan, C., 281
D., 338
F. M., 24
G., 274
G. V., 433
H. M., 457
M. A., 402
R. J. M., 100
W. E. A., 295
W. J., 288
Buchanan-Riddell, Sir W. R., 189, 198
Buchheim, E. S., 125
Buchler, A., 172, 173
Buck, F. E., 339
P. C., 171
Buckhurst, H. M., 202
Buckland, W. W., 44, 49
Buckley, G. F. H., 330
H. C., 533
H. E., 177
J. P., 181
Buckmaster, G. A., 35
Lord, 130
Budd, C. H., 47
Budden, L. B., 90
Buddin, W., 252
Buer, M. C., 250
Buist, J. J., 237
Bukhsh, A., 505
Bulkeley-Evans, W. A., 354, 361
Bull, F. B., 163
P. C., 131
R. J., 433
Bullard, H. H., 414
Bulleid, C. H., 246
Buller, A. H. R., 366
Bullerwell, J. W., 77
Bulloch, W., 155
Bullock, E., 244
K., 181
R., 75
Bullough, E., 48, 49
Bulman, E., 373
Bulyea, H. E., 331
Bunting, T. G., 357
Burbidge, P. W., 463
G. A., 344
Burchell, C. J., 343
F. B., 481
Burchnall, J. L., 68, 69
Burdon, E. J., 165
R. S., 426
Burfield, S. T., 94
Burgess, A. F., 170
A. H., 181
A. H., B.Sc., 143
C. S., 330
H. C., 359
J. F., 359
R., 80
W. L., 294
Burke, G. T., 533
J., 167
Burkhardt, G. N., 176
Burkill, J. C., 52, 93
Burkitt, A. N. St. G. H., 440
F. C., 43
Burlend, T. H., 237
Burman, W., 371
Burmeister, A. V., 472
Burn, A., 448
A. E., 35
D. L., 92
R., 281
W. L., 293
Burnaby, H., 49
J., 52
Burnet, J., 293
W., 218
Burnett, K., 538
P., 359
Burnett-Hurst, A. R., 507, 510
Burney, C. F., 215
Md. E., 550
Burnham, R. E., 83
Burns, A. R., 127
C. D., 138, 140
C. R., 457
C. W., 370
D., 289
David, D.Sc., 72
I. F., 63
J. W., 413
M., 271
P. L., 301
R., 289
W., 518
Burr, E. G., 358
Mrs. M. S., 81
S., 80
Burrell, L. S., 174
P. S., 508
W. G., 288
Burridge, A. J., 369
W., 534
Burrow, J. le F. C., 84
S. G., 516
Burrowes, A. B., 200
Burrows, C. M. E., 190, 203
G. J., 441
H. B., 34

Burstall, F. W., 23, 24
S A., 177
Burt, A. L., 331
C., 140
C. L., 144
F. P., 176
H. C , 336
Burt-Gerrans, J. T., 398
Burton, E. F., 403
J. A. G., 285
Burtt, P., 141
Burwash, E. M., 338
Bury, C. R., 229
F. W., 135
J. B., 44, 50
Busby, E. D , 415
O. M., 240
Bushnell, G. H., 292
Busteed, J., 318
Busuttil, R , 498
Butani, S B , 517
Butchart, H. J., 263
R. K., 294
Butler, A. J., 197
B. E., 202
C. P., 42
E. M., 54
Sir G., 41, 48
H. E., 105, 117
J. A. V., 240
J. B., 315
J. R. M., 52
K. T., 54
R. A., 48
R. M., 314
R. R., 170
Butt, A., 506
Butterfield, H., 51
Butterworth, J. J., 182
Miss, 149
Button, G. T., 192
Bux, R , 554
Buxey, T. K., 546
Buxton, J. B., 42
J. L. D., 163
L. H. D., 190
Buzzard, E. F., 158
Byers, W. G. M., 359
Byrne, G. T., 568
J. W , 34
W. A., 320

Cade, S., 161
Cadenhead, A. F. G., 386
Cadham, F. T., 369
Cadieux, J., 384
Cadman, Sir J., 25
Cadness, H., 184
Cairney, J., 456
Caius, J. F , 517
Calder, G., 281
W. M., 176
Calderwood, N. I., 25
Caldwell, H. G., 386, 387
K. S., 557
M. C., 82
P. S., 289
S., 189
W., 356
Call, F. O., 336
Callaghan, J., 318
Callan, J B , 457
Callander, T., 386
Callaway, A. E , 431
Callendar, H. L., 132
Callus, D., 498
Calthrop, J. E., 136
M. G , 144
Calvert, G. G., 460
Camboulines, A., 539
Cameron, A., B Sc., 382
A., Scot , 264
A , M.A , 524
A. E , M.Sc , 331
A. E , D.Sc., 393
A. T., 366
C. F., 373
C. N., 393
D., 271
D. E , 330
D. J., 564
E. H., 273
G. C., 405
G. C. M., 457
G R., 434
G. S., 357
H C., 156
Sir H. C., 280
H. M , 369
J., 342
J F., 49
J. H., 400
Margaret, 393
M., 285
M. B., 535
R. G., 441
S. J , 285
S. S., 433
Camm, W. C., 25
Campagnac, E. T., 92
Campbell, A., 559
A., B.Sc., 356
A. E., 300
Alex., 394
A. L., 426, 445
A. M , 370
A. N., 264
A. Y., 91
C., 176
C. A., 283
C. G , 359
D., 284
E. F., 443
F. H., 434
F. J. H., 414
G. J., 555
G. S., 342
H. G., 125
I. M., 53, 59
Sir J., 298
J. R., 289
J. W , 331
K. W. D., 251
L. M. R., 72
P. G. C., 387
P. S., 364
R., 271
R. A., 460
S , 369
S. G., 43, 47
Campbell, T. D., 427
W. G., 370
W., 471
W. L , 538
Candeth, M. A., 538
Candy, A., 460
H C. H., 155
Cane, T. W., 460
Cann, J. A., 339
Cannan, E , 139
R. K., 120, 123
Canney, M. A., 180
Canning, H., 304, 307
Cannon, G. H. F., 255
H. G., 130
W. E., 349
Cannor, F. P., 523
Cano, J., 402
Canterbury, Archbishop of, 347
Cantillon, E V., 319
Cantlie, Sir J., 163
Caouette, J , 351
Cappell, D. F., 285
Capron, R. S., 531
Capstick, J. W., 52
Carey, E., 90
C. W., 150
J. R., 127
Cargill, L. V., 159
Carlou, Mlle., 233
Carless, W., 354
Carleton, G. B., 443
H. H., 36
H. M., 194
Mrs., 190
Carlier, E. W. W., 26
Carlill, H., 158
Carline, S. W., 191
Carling, E. R., 161
Carlisle, J. O., 399
Carlson, J. E. G , 34
Carlyle, A. J., 53, 199, 201, 202
E. I., 199
Carmalt-Jones, D. W., 457
Carmichael, N. S., 273
R., 274
Carmody, P. J., 430
Carne, W. M., 450
Carney, M. J., 344
Carnwath, T., 157
Carpenter, H. C. H., 132
Carr, C., 137
E. T. S., 51
F., 50, 51
H., 398, 406
H. W., 126
J. W., 246
Carré, M. H., 34
Carrington, H., 183
W. L., 433, 434
Carritt, E. F., 201
Carroll, J. A., 42, 52
Carruthers, W. A., 393
Carr-Saunders, A. M., 94
Carruthers, C. H., 355
S. J., 445
Carse, A., 171
G. A., 270, 272

Carslaw, H. S., 442
J., 286
Carson, J. H. A., 299
O. A., 387
W., 300
Carswell, W. E., 457
Carter, A. M., 462
A. T., 198
C. L., 456
C. R., 199
G., 220
G. P., 447
G. S., 284
N., 440
Nellie, 135
P. W., 229
S. R., 23
W. S., 382
Cartwright, B. O., 146
C. L., 540
E. S., 213
G. S., 402
M., 400, 411
Carty, P., 539
Carver, P. E., 299
Carwardine, T., 37
Cary, A., 384
M., 118, 148
Casartelli, Dr., 188
Casati, E., 264
Cashmore, H., 35
Caspersz, U. D. R., 564
Cassar, I., 499
S., 499
Cassidy, M. A., 158
C. G., 384
G. J., 356
Cassie, A. M., 272
Cassim, A., 560
Casson, R., 255
S., 190, 200
Castellain, A. P., 135
Castlehow, S., 437
Caswell, J. S., 240
Cates, H. A., 397
Catheart, E. P., 283
G. L., 304
Catterson-Smith, J. K., 563
Cattley, R., 84
Catty, N. M., 170
Caunt, G. W., 77
Cave, Viscount, 189
A. J. E., 81
S., 59
T. W., 143
Cave-Browne-Cave, F. E., 54
Caven, R. M., 288
Cavenagh, B., 176
F. A., 240
Cavenagh-Mainwaring, W. R., 427
Cawley, G. M., 131
Cawthorne, H. H., 243
Cays, F. A., 388
Cayzer, A., 437
Cecil, Lord H. R. H., 189, 198
Lord R. H., 194
Lord E. C. D. H., 201
Viscount, 23, 263
Celliers, J. F. E., 488
Chablani, H. L., 531
Chabra, B. D., 532
Chadwick, A. S., 183
H. C., 93
H. M., 42, 48
J., 45, 49
J. A., 52
M., 183
Chaffers, S., 175
Chak, J. N., 533, 535
Chakko, K. C., 540
Chakrabarti, N., 524
Chakravarti, A., 538
C., 523
G. N., 533
K. C., 558
M. K., 531
S. C., 525
Chaldecott, J. H., 154
Chalk, L., 192
Challenger, F., 176
Challinor, J., 230
Chalmers, C. H., 80
Lord, 41, 51
Chamberlain, Sir A., 280
D., 84
G. L., 247
Chambers, E. R., 36
F. M., 300
J., 159
R. W., 118, 123
Champion, H. G., 192
Champlin, M., 394
Chan, J. C. L., 568
Chance, T. W., 226
Chand, A., 555
D., 510
H., 555
Tara, 508
Chanda, N. C., 531
S. M., 527
Chandler, A. B., 359
Chandorker, D. V., 547
Chandrabal, 513
Chandrasena, J. P. C., 564
Chant, C. A., 398
S. N. F., 403
Chapais, Hon. T., 349
Chapelon, J., 410
Chapman, A. E., 24
A. I., M.A., 355
A. I., D.D.S., 427
A. W., 217
C. L., 440
C. W., 413
D., 91
D. L., 198
F., 432
H., 163
H. (Otago), 456
H. G., 442
R. E., 124
R. W., 425
S., 132
Chappell, A. J., 218
Chapple, C. R., 229
H., 156
H. M., 132
Charan, S., 534
Charbonneau, J. N., 375
Charbonneau, L., 384
Charles, H., 154
J. R., 36
R., 129
Charlesworth, J., LL.D., 76
J., M.Sc., 171
J. K., 299
M. P., 51
Charlier, P. L., 516
Charlton, H. B., 177
P. C., 444
Charnock, F. S., 474
Charteris, A. H., 443
F. J., 292, 295
Charters, R. H., 495
Chartier, E., 374
Chartrand, J., 384
Chase, E. E., 442
G. A., 53
Chatfield, H. S., 540
Chattaway, F. D., 200, 202
Chatterjee, A., 525
H., 521
L. N., 525
M., 523
R. N., 524
S. C., 522
S. C., M.Sc., 525
S. K., 521
S. N., 525
Chatterji, A. T., 557
B., 558
B. C., 514
B. N., 535
C. D., 534
F. B., 507
G. C., 556
K. C., 508
K. C., Benares, 513
K. P., 507
Chattoraj, D. G., 523
K. P., 523
Chaturvedi, C., 509
Chaudhary, H. C. R., 558
Chaudhri, S. C., 508
Chaudhuri, H., 553
M. N., 540
S. C., 524
Chaudhury, H. P., 534
P., 521
R., 560
S. S., 558
Chaundy, T. W., 198, 200
Chauvirè, R., 314
Chavannes, R. M., 54
Chavasse, F. B., 96
Chaytor, H. J., 51
Cheatle, A. H., 157
Sir G. L., 161
Cheema, G. S., 518
Cheesman, E. E., 417
Cheetham, F. P., 180
Chelmsford, Viscount, 116
Cherner, A. A., 366
Cherry, T. M., 52
Cheshire, F. J., 134
F. M., 547
G. C., 195, 198
Chesney, K., 203
Chester, C. E., 255

Chesters, A. E., 246
Chestnut, W., 369
Chevrillon, P., 49
Chew, H. M., 126
Chick, H., 160
Chiene, G. L., 274
Chilcott, C. M., 202
Child, C. H., 85
C. K., 116
J. M., 178
P. A., 400
Childe, W. R , 82
Childs, B., 272
E. C., 34
J. R. N., 414
W. M., 250
Chilton, C., 460
Chipman, W. F., 358
W. W., 359
Chisholm, A. R., 431
C., 182
C F., 328
D , 281
H. A., 344
J., K.C., 273
J., M.B., Ch.B , 221
Chitty, H., 37
Chodak Gregory, Mrs., 158
Chodat, H., 338
Cholmondeley, F. G., 197
Chordia, S., 547
Choudhury, J. K., 527, 530
Chowdhry, B. K., 558
Chowdhury, R. C., 507
Chowla, G. S., 553
Choyce, C. C., 161
Christie, C. V., 358
H. R., 338
J. R., 269
M. E., 142
Christofferson, P. E., 36
Christopher, E. C., 69
Chrystal, E. M., 54
Chubb, C. S., 236
G. C., 157
Chudleigh, D. G. A., 345
Chumley, J., 284
Church, A. E R., 170
A. H., 191
L. F., 153
Churchill, J. L., 344
W. F. S., 136
Chute, A. W., 199
Cillie, G. G., 488
Cilliers, C. A., 489
Cippico, A., 119, 123
Clack, B. W., 138
Clapham, H. D., 163
J. H., 50, 193
M., 299
Clapton, G. T., 218
Clapperton, A. E , 280
Clarebrough, J. A., 434
Claremont, L. E., 37
Clark, A. B., 367
A. C., 191, 198
A. F. B., 338
A. J., 119, 121
A. L., 387
A. M., 271
Clark, C. H. D , 81
D , 305
D. A. K , 69
E. J., 430
E. V., 425
F. H. H , 50
F. W., 366
G. A , 74, 219
G. C. L., 431
G. F., 559
G. N., 200
H , 481
J., 472
J. B., 269
J. B., B.A., 495
J. J., 94, 91
J. K., 434
J M., 282
K. A., 333
R. H., 337
R. M., 263
T. A. B., 305
T. H., 355
W. E le G., 154
Clark-Kennedy, A. E., 48
Clarke, A. B , 516
E. de C., 450
F , Cape Town, 472
F., Lond., 135
F C., 171
G. H., M.A., 387, 390
G. H., B.Sc., 445
H. M., 125
J. R., 219
L. C. G., 61
M., 202
R., 320
R. C., 36
W. B., 65
W. S., 177
Clarkson, F. A., 404
Clatworthy, J. P., 251
Claughton, H., 101
Clawson, W. H., 400
Clay, H., 177
J., 71, 72
R. S., 171, 173
Clayden, A. W., 243
Claye, H., 49
Clayton, A. E., 183
F. H. A., 72
H. J., 444
Claxton, G., 86
Cleary, W. J., 441
Clegg, C. L., 145
F. R., 414
Cleland, F. A., 404
J. B., 427
Em. Prof., 288
Clemens, W. A., 326
Clement, B., 456
F. M., 339
Clemmson, F. J., 157
Clemo, G. R., 71, 76
Clery, A. E., 315
Clevenger, C. B., 373
Clifford, H., 188
W. M., 127
Clift, S. G., 247
Clifton, E. W. V., 176
Climo, C. B., 345
Clinton, W. C., 117
Clogg, H. S., 161
Close, R. W., 471
Clothier, B., 97
Clough, G. W., 169
Clouston, D., 298
Clouts, P. M., 472
Clover, M., 54
Clucas, R. J. M., 425
Clunies-Ross, I., 442
Clute, A. R , 402
Clutterbuck, P. W., 179
Cluver, E. H., 493
Coady, M. M., 391
Coaker, N. E., 492
Coar, J. F., 331
Coate, M., 202
Coates, A. E., 430
C. V., 138
J. E., 240
Cobb, A. J., 252
J. H., 217
J. W., 85
Cobbett, L., 46
Cochrane, C., 283
C. A., 71, 75
C. N., 401
W. A., 275
Cock, A. A., 254, 256
Cockayne, E A., 158
Cockburn, Sir J., 139
J., 307
J. R., 399
Cockcroft, J. P., 183
Cockerell, S. C., 61
Cockerill, J. E., 433
Cody, H. J., 397
Coen, B. J., 440
Coetzee, J. C., 482
Coffey, D. J., 312, 314
P., 312, 318
Coghill, V. H. K. A., 198
Cogswell, A. W., 345
Cohen, J. L., 49, 53
M., 473
S. M., 471
Cohn, E. S., 200
Cohoon, J. W., 380
Coker, E. G., 117, 121
Colaco, D. S., 547
Colahan, N. W., 320
Colborne, D. C., 77
Colburn, J., 224
Cole, E. B., 94
E. R. F., 90
F. A. C., 401
F. J., 251
G. D. H., 191, 201
L. W., 224
P. R., 441
R. H., 159
S. W., 46
Coleman, G. S., 183
H. T. J., 338
N. D., 69
Coles, E. M., 338
Colgrave, B., 68
Collaco, M. F., 517
Collart, Father, 542

Colles, C., 82
H. C., 171
Collie, F. A., 92
J. N., 117
Collier, J. S., 158
W. T., 195
Collin, W. E., 413
Collinge, J. S. H., 97
Collingwood, B. J., 161
R. G., 200
W., 484
Collins, A. S., 233
B. K. T., 238
E. T., F.R.C.S , 159
H. J., 118
M , 273
S. H., 75
W., 131
Collinson, H., 85
W. E., 92
Collip, J. B., 330
Collis, E. L., 237
Colman, W. S., 172
Colomb, R., 25
Coltman, J., 73
Colyer, Sir J. F., 163
Coman, G., 250
Comber, H. G., 50
N. M., 80
Commissariat, J. S., 516
M. S., 516
Compton, A., 124
R. H., 471
Comrie, J. D., 274
Conacher, W. M., 387
Conboy, F. J., 405
Condliffe, J. B., 460
Conlin, W., 479
Conn, L. C., 332
Connal, B. M., 81
Connaught, Duke of, 254, 477
Prince A. of, 491
Connell, A., 221
H. C., 388
J., 281
J., F.R.C.O., 486
J. C., 388
W. T., 388
Connolly, G., 321
Conrady, A. E., 132
Conran, M. J., 318
Conroy, R., 26
T. A., 318
Constable, Hon. Lord., 269
F. H., 64
Constançon, C., 492
Contant, J., 376
Contractor, A. K., 516
Conway, A. W., 314, 315
E. I., 256
G., 177
G. S., 68
R. S., 126, 170
Cook, A. B., 43, 51, 61
A. J., 331
G., 125
H. G., 238
H. L., 456
J. W., 169
S. A., 49
Cook, W. G. H., 255
Cooke, A., 47
A. G., 47
A. M., 54
G. A., 195, 197
G. F., 565
H. S., 250
L. H., 132
R. G., 170
W. C., 318
W. E., 440
W. E., B Eng., 218
W. T., 425
Cookson, A. C., 117
I. C., 434
Coolidge, W. A. B , 199
Coombs, C. F., 36
F. E., 399
Coon, E M , 539
Cooney, W. P., 473
Coope, R., 91
Cooper, C. F., 61
E. A., 23
F. T., 136
M. A., 492
M. G., 84
R., 35
W. L., 32
Coopland, G. W., 92
Coote, J A., 358
P., 351
Cope, V. Z., 161
Copeland, A. J., 46
Copland, D. B., 431, 449
Copp, W. P., 342
Coppinger, W. V., 523
Copson, E. T., 272
Coppleson, V. M., 440
Coram, J. W., 405
Corbett, E. A., 333
P. E., 358
P. E., Ox., 197
Corbin, H. H., 462, 463
Corcoran, T., 314
Corder, P., 75
Cordier, M., 282
Core, A. F., 176
C. G., 176
D. E., 181
Corfiato, H., 116
Corfield, C., 35
C. E., 155
Corlette, C. E., 444
Corley, F. E., 538
Cormack, J. D., 282, 286
P., 316
Cornelius, M. A., 548
Cornellier, P., 384
Cornford, F. M., 52
Cornish, G. A., 399
H. H., 464
R. J., 177
Cornwall, E. W., 431
Corston, J. R., 344
Cory, Sir G. E., 484
Cosh, J. C., 447
Cossar, J., 192
Cossard, E. A. A., 178
Costain, J. H., 23
Costello, E., 44
Costin, W. C., 201
Côté, V., 384
Cotter, J. R., 305
Cotton, C. A , 464
F. S., 442
H., 246
L. A., 441
Cottrell, A., 270
A. J., 457
Couillard, E., 351
Coulson, J. G., 357
Coultas, H. W., 24
Coulter, J. E., 370
Coulton, G. G., 43, 51
Coupland, J. A., 84
R., 193, 197
Courchesne, G., 350
Courtman, E. O., 132
Courtney, W. L., 200
Couselant, L. D., 514
Cousen, A., 220
Cousineau, Hon P , 376
Cousins, A. M., 464
H. G., 462
Coustenoble, H., 119
Coutie, A., 270
Coutts, E. H. M , 263
Coventry, A F., 398
Coverdale, W. H., 386
Coverlid, D. R., 432
Covernton, A. B., 147
A. L., 516
Cowan, D. M'C., 257
D. R W., 427
J., 273
J. M., 284
Coward, K., 123
Cowie, R. H., 264
Cowley, A. E., 189, 199
Cowling, G. H., 82
T., 405
Cox, A. H., 236
H. A., 44
H. B., 255
P., 382
R. R. S., 219
Coy, H., 382
Coyajee, J. C., 523
Crackston, J. E., 237
Craib, W. G., 264
Craig, Sir A., 280
A. D., 442
E. S., 189, 199
F. B., 444
Sir J., 304, 307
J. A., 300
J. D., 293
Sir. M., 159
N., 496
R., 271
R. G., 444
Craigie, E. H., 398
W. A., 200
Craik, Sir H., 257
Cramp, W., 24
Crampton, E. W., 357
J., 426
Cranage, D. H. S., 62
Crane, J. W., 415
Cranfield, R. V., 272

Cranston, J. A., 288
Crapper, E. H., 224
Craster, H. H. E., 197
Craven, M. B., 183
Crawford and Balcarres, Earl of, 175
Crawford, A. B., 289
A. C., 91
A. W., 367
G. W., 567
Mrs. H. G , 560
H. J., 111
J , 493
J. H., 274
J. K., 85
J. T., 397, 399
L , 472
R. H. P., 158
R. N , 560
S. J., 254
Crawley, C. W., 53
Creed, E. ff., 160
J. M., 51
R. S., 200
Cremer, H. W., 125
Crerar, S. R., 404
Crespi, A., 137
Cresswell, F. P. S., 238
Crew, F. A. E., 272
Crewdson, M. S., 147
Crewe, Marquess of, 217
Crichton, E. C., 473
V. M. S., 150
Crocker, J. C., 170
Crocket, J , 285
Croft, E. O., 84
Crofton, W. M., 315
Crofts, D. R., 127, 149
J. E. V., 34
Croissant, L., 349
Croly, R. G. G., 540
Crombie, J. E., 263
Crompton, H., 147
Cronkite, F. C., 394
Cronshaw, G. B., 200
Crookall, R., 264
Crosby, H. S., 345
Crosland, Mrs., 151
Cross, E. J., 86
F. R., 36
K. S., 433
L. B., 199
Croucher, S. H., 164
Crous, A., 485
Crow, W. B., 235
Crowdy, C. T., 359
Crowe, W. H., 299
Crowther, J. A., 251
Cruickshank, A., M.I.M.E., 131
A., 264
A. H., 68
D. M., 264
J., 266
J. N., 284
Cruickshanks, G. S., 288
Crump, M , 170
P. E., 175, 178
Cruse, H. P., 488
Cruttwell, C. R. M. F., 198
Crymble, P. T., 298
Cuff, A., 221
Cull, E. C., 24
Cullen, Sir W. P , 440
Culley, A. D., 69
Cullinane, N. M , 236
Cullis, C. G., 131
W. C., 140, 161
Culverwell, E. P., 304
Cumbrae-Stewart, F. W. S., 437
Cummer, W. E , 405, 406
Cumming, A., 338
A. M., 243
G. A., 293
J., 456
W. A., 462
W. M., D.Sc., 289
Cummings, A. S., 371
Cummins, H. A., 317
S. L., 238
Cunliffe, N., 196
W., 176
Cunning, J., 161
Cunningham, B., 117
B. K., 59
E., 51
E. M , 305
J. T , 136, 172
W. R., 280, 288
Cunnington, W. A., 155
Cunnison, J , 283
Curling, H B., 473
Curnock, W. E. M., 170
Curnow, H. I., 233
I. J., 178
Curr, H. S., 365
Curran, F. H., 414
M., 318
Currelly, C. T., 401
Currie, Sir A. W., 326, 354
J. R., 285, 286
Curry, W. A., 342
Cursham, C., 247
Curson, H. H., 486
Curtis, E., 306
L. G., 197
S. J., 82
W. A., 270
W. E., 126
Curzon, Lord, 215
H. E. J., 171
Cuschieri, A., 498
Cushing, H. B., 359
Cushny, A. R., 274
Cuthbert, R. A., 461
Cutting, E. M., 116

DADACHANJI, B. E., 547
Dadina, F. M., 555
Da Fano, C., 126
Dagneau, C., 350, 351
Daiches, S., 172
Dainton, A. H., 82, 86
Dakin, W. J., 94
A., 32, 35
Dalal, A. K., 516
P. A., 516
Dalbis, L. J., 374, 376
Dalby, W. E., 131
Dale, A. B , 39
A P., 54
B. J., 171
E A., 399
J. A , 403
J. B., 126
Dall, Mrs. A., 293
Dallas, A. E. M. M., 297
Dalrymple, Sir W , 491
Dalton, H., 130, 142
J P., 492
P., 444
Dalvi, D. G., 516
Daly, I. de B., 237
G. J., 318
R. M., 493
Dam, M. L., 527
Damant, E. L., 492
Damle, N. G., 518
Dani, P. G., 518
Daniel, P. L., 161
R. J., 93
Daniell, G. W B., 473
P. J., 219
Daniels, G. W., 177
J. W., 73
Daniher, E. L., 400
Danjean, S., 299
Dann, E. W , 505
F. E , 69
Dannatt, C. W., 132
Dansey, R. J. St. J., 444
Darab, G. H., 146
Darbelnet, J., 229
Darbishire, H., 202
O., 77
O. V., 33
Darcy, C. E., 444
Dart, R. A., 491
Darvall, A. E., 438
Darwin, C. G., 272
E. R. H., 431
L. J., 461
Das, A. K., 525
B. C., 523
I., 553
K., 522
K. N., 522
K. N., M.A., 557
K. P., 558
L. S., 555
R. S., 508
S., 513
Saradaprasanna, 524
Das Gupta, B. N., 533, 535
H. L., 558
J. N., 530
P. N., 557
S. N., 523
S. N., Panjab, 553, 555
Das Purkayastha, N. C., 560
Das-Gupta, G. C., 523
J. N., 527
Dash, J. S., 417
Dass, B. K., 508
Dastur, F. M., 504
J. F., 546
K. B. F. M., 515
P. E., 507
Datar, K. G., 517

Datta, A. C., 510
H. N., 527
R. K., 523
S., 524
S. C., 521
S. K., 508
Datta-Gupta, A. K., 527
Daubigny, T., 375
Daunt, B. M., 137
Dauth, A., 375
D. J., 494
Davar, F. C., 516
Dave, B K., 546
Davel, H. B., 485
Davenport, A. H., 52
Davey, A. J., 233
David, A., 518
J. M., 507
Sir T. W. E., 447
W. T., 82
Davidge, H. T., 117
Davids, Mrs. C. A. R., 146
Davidson, A. M., 280
A. M., M.D., 369
C , 265
H. S., 273
J., 337
Jas., 261, 269
J. G., 339
J. R., 369
R., 406
S. W., 71
W. L., 265
Davies, A., 504
A. C., 150
A. M., 131
A. W., 509
C., 143
C. W., 229
D. L., 238
D. S., 36
D. W., 229
E., 236
E. H., 426
E. T., 233
G. A., 281
G. F. S., 433
G. MacD., 137
H. J., 218
H. M., 34
H. W., 275
I. J., 237
J. G., 94
J. H., 228
J. M., 226
M. O., 232
R. L., 443
R. M., 230
R. O., 229
S. J., 76
V. C., 170
V. R., 387
Sir W., 230
W., Wales, 229
W., 82
W., Melb., 430
W. A., 152
W. L., 252
Davies-Colley, R., 161
Davies, A., 540
Davies, B. E. C., 135
E. D. D., 157
E. J., 118
H., 73
H. D., 156
H. J., 400
H. R., 126
H. W. C., 187, 193
O. C. M., 33, 36
R. L., B.S A., 339
W , 247
Davison, J. F , 402
Davy, N., 247
Daw, S. W., 84
Dawbarn, M. C., 426
Dawes, H. F., 364
Dawkins, R. McG., 192, 198
Sir W. B., 178
Dawson, Lord, 158
C., 243
C. A., 357
G. G., 197
H. M., 81
J. M., 292
W , 44
W., M.B , 567
Dawson-Walker, D., 66, 68, 72
Day, D. J., 356
I., 568
J. N. E., 117
J. P., 358
M., 125
W. R., 192
Dayal, K., 557
S., 531
Shiveshwar, 558
De, C. L., 525
J. C., 523
K. C., 531
K. P., 560
M. L., 548
R. K., 524
R. L., 527
S. C., 512
S. K., 527, 529
D'Alton, J. F., 312
D'Ath, E. F., 457
de Arteaga y Pereira, F., 194
De Beaumont, V., 401
De Beer, G. R., 194, 199
De Blois, J., 384
de Burgh, W. G., 251
de Castella, F., 430
de Castelvecchio, L. P., 25
De Castro, I., 247
De Champ, St. E., 400
De Cotret, E. A. R., 376
De Crespigny, C. T. C., 427
D'Eath, D. C., 139
D'Ery, L., 464
D'Herbois, R. C., 450
de Klerk, W. J., 482
De Kock, G. v. d. W., 486
De la Hey, Miss, 539
De Lloyd, D , 230
De Lury, A., 395
A. T., 402
J. S., 367
De Mavillac, D., 472
de Montmorency, J. E. G., 168
de Navarro, J. M., 52
de Paula, F. R. M , 139
De Reyes, C. M., 243
de Savoye, H., 331
de Sélincourt, E., 24
O., 263, 265
de Silva, A. M., 566
J., 565
De Sola Pinto, V., 248
De Souza, D. H , 126, 158
D'Souza, J. A., 516
de Valera, E., 312
De Villiers, C. G. S., 489
J. E., 472
L. C., 485
W. P., 485
De Vos, P. J. G., 488
de Wesselow, O. L V., 155
De Wet, F. C., 480
C. J. H., 482
De Winton, F. H , 198
De Witt, C. E. A , 328
N. W., 399
De Wolfe, H. T., 328
De Wulf, M., 403
De Zilwa, L., 565
De Zulueta, F., 194, 197
Deadman, E., 331
Deakin, M. H., 97
Dean, G., 169
H. P., 24
H. R., 46, 53
W. R., 52, 132
Deane-Jones, I., 199
Dearle, R. C., 414
Dearmer, P., 124, 152
Deb, S. C., 507
Debenham, F., 46, 49, 51, 52
A. J., 442
Debono, G., 499
S., 499
Décarie, J. D., 376
Déchamps, J., 135
Dederick, L. S., 338
Dee, A. A., 26
Defries, R. D., 404
Degani, M. A., 315
Deighton, F., 63
Dekker, J., 482
del Re, A., 126, 193
Delafield, M. E., 119
Delano, C. C., 380
Delf, E. M., 151
Deller, E., 101
Delorme, L. N., 374
Delp, W. E., 150
Delvecchio, P., 376
Demers, J., 375
Hon. L. P., 375
Dempsey, T., 320
Dendy, A., 129
Deneke, H. C., 202
Denham, C. H., 316
H. G., 460
Denison, R. B., 481
Denney, W. L., 415
Denniston, J. D., 189, 198
Denny, A., 224
Denny-Brown, D. E., 456

Denton, J., 65
Deodhar, D. B., 535
Deoras, R. S., 548
Derby, the Earl of, 90
Derham, E., 431
Derick, C. M., 354
Dermer, E. C., 201
Derome, A., 377
G. W., 376
W., 377
Des Barres, F. W. W., 380
Desai, M. M., 513
P. M., 516
W. S., 560
Desch, C. H , 219
Deschamps, T., 384
Deshpande, S. G., 516
Desnoyers, A , 384
Desrivieres, E., 350
Desrosiers, J.-B , 375
Desseigner, J., 251
Désy, J., 374, 378
Detwiler, J., 414
Devi Dyal, 553
Devine, H., 159
H. B., 433, 434
J. W., 394
Devonshire, Duke of, 41, 80
Dew, H. R., 434
Dewar, R., 251
Dewhurst, R. P., 195
Dewsnup, E. R., 91
Dey, B. B., 538
H. L , 534
J. C., 534
M., 524
W. F., 369
Dhanna Lal, 546
Dhar, N., 509
N. R., 507, 513, 557
S. C , 547
Dhareshwa, G., 550
Dhopeshwarkar, A. D , 517
Dhruva, A. B., 512, 513
K. H., 516
Dible, J. H., 160, 188
Dick, A. M., 555
Dickenson, F., 298
Dickie, A. C., 175
Dickins, B., 271
Dickinson, G. L., 50
E. C., 505
H., 95
H. D., 81
J. D., 76
Dicksee, L. R., 105
Dickson, B. T., 357
D. S., 284
E. C. S , 179
F., 337
J. D. H., 51
J. M., 247
L., 280
M. S., 294
T. W., 132
Dienes, P., 240
Dieth, E., 264
Diethelm, O. A , 444
Digby, K. H., 569
Diggle, F. H., 179
Dil-Muhammad, 553
Dilling, W. J., 96, 98
Dillon, D. L., 415
T., 320
T. J., 127
Dimbleby, V., 220
Dimmitt, M. A., 535
Dimont, C. T., 32, 35
Dines, L. L., 394
Dingemans, G. F., 483
Dingle, H., 132
Dingwall, J. M. M., 236
Dinsdale, D. H., 75
Divatia, V. B., 516
Diverres, P., 240
Diwan Anand Kumar, 553
Dix, F., 491
G. E. A., 202
Dixey, F. A., 201
Dixit, D. L., 518
Dixon, A. C., 300
A. F , 307
A. L., 193, 199
H. B., 176
H. H., 305
J. T. H., 76
M., 43
S. M , 131
W. E., 46
W. M., 280, 282
Dobb, M. H., 48, 51
Dobbs, S. P., 217
Dobelli, E. B., 148
Dobrée, B., 135
Dobson, G. M. B., 193
H. J. E., 68
J. F., M.A., 34
J F., M.S., 85
P. S., 415
Dodd, A. H., 233, 234
F. T. Ll., 299
G. J., 356, 358
P. W., 198
S., M.B., 156
S., F.R.C.V.S., 442
Dodds, E. C., 155
E. M., 265
E. R., 24
Dodds-Parker, A. P., 190, 195
Dodeiet, W., 145
Dodgson, J. W., 250
M., 69
Dodwell, H. H., 145
Dohan, J. S., 357
Doig, B. C., 442
Dojaily, Sh. K., 145
Doke, C. M., 491
Dolamore, W. H., 163
Dolley, L. G. F., 124
Dolling, U. R., 150
Dombrowsky, H., 374
Donald, A., 187
G., 263
M. M., 488
Donaldson, M., 156
R. E. D., 68, 69
R., 160
Donegan, J. F., 321
Donnan, F. G., 117
Donovan, D. D., 318
R., 314
Donovan O'Sullivan, Mrs., 320
Doodson, A. T , 93
Dootson, F. W., 43
Doran, W., 91
Doré, S. E., 156
V., 375
Dorec, C., 169
Dorion, Hon. C. E., 350
Dorland, A. G., 414
Dorothea, M., 400
Dorr, E. M., 480
Dorrance, R. L., 386
Dorsey, J. W., 367
Dorvaux, J. E., 375
Dorward, A. J., 300
J., 299
Dott, N., 273
Doty, I. C., 343
Double, I. S., 92
Doubleday, F. N., 163
Dougal, D., 181
Dougall, R. P. I., 413
Doughty, O., 118
Dougill, W., 90
Douglas, A. J., 369
C. G., 194, 200, 201
D. C., 282
J. A., 192, 201
J. S. C., 220
Douglas-Crawford, D., 90, 96
Dover, A T., 170
Dow, D. R., 292
Dower, R. S., 81
Dowding, E. S., 330
Dowds, J. H., 493
Dowling, J. J., 315
W., 485
Down, C. H., 434
Downey, J., 317
M. H., 427
Downham, W. S., 415
Downie, A. W., 266
Downing, F., 219
Downs, A. W., 332
B. W., 47
Dowse, C. M., 170
Dowsett, E. B., 163
Doyle, J., 314
Doyne, H. C., 196
Drabble, F., 169
H. S., 221
Drake, H. L., 200
J., 525
J. A., 156
Drakeley, T. J., 169
Drennan, A. M., 457
C. M., 491, 492
M. R., 471
Dreyer, J., 273
Drew, E., 240
J. P., 314
H. D. K., 23
K. M., 176
Dreyer, G., 195, 199
N. B., 123, 343
T. F., 479
Driver, G. R., 199
J. E., 246

Dron, R. W., 283
Droop, J. P., 90
Druce, G. C., 191
Drummond, Sir D., 65, 71
H., 72, 74
H. A., 34
H. P., 441
J. C., 120
J. M. F., 281, 288
W. M., 332
Drury, E. G. D., 483
F. E., 176
T. W., 41, 51
T. W. E., 307
Dry, T. J., 471
Dryerre, H., 272
Drysdale, J., 492
Du Plessis, A. J., 479
D. J., 482
J., 489
J. A., 482
L. J., 482
Du Roure, R., 355
Du Toit, A. E., 486, 487
D. F., 488
J. D., 482
P. J., 473, 477, 486
Duara, S., 508
Dubé, E., 376
H., 384
Dubeau, A., 375
E., 374
Dubey, D. S., 535
Dubois, N., 384
P., 384
Duchein, F., 375
Ducnesneau, J. C., 384
Duckering, W. E., 337
Duckworth, H. T. F., 401, 411
W. L. H., 42, 49
Dudden, F. H., 190, 200
Dudgeon, L. S., 160
W., 508
Dudley, C. C., 448
G., 254
Duerden, J. E., 484
J. R., 37
Duff, A. M., 264
D., 399
G. H., 398
J., 312
J. D., 52
J. F., 79
J. W., 76
P. W., 52
R. A., 280, 288
Duffield, C. A. W., 143
F. A., 93
Duffy, C. G., 432
Dufresne, E., 377
G. A. H., 374
Duggan, C. A. O., 492
J. N., 516
Duguid, J. B., 181
Duhamel, J. A., 374
Dühr, J., 516
Duigan, W., 195
Duke, A. C. H., 197
W. H., 49
W. V., 558
Dukes, C., 127
Dumbell, S., 91
Dumbrill, W. E., 170
Dummy, J. P., 486
Dun, W. S., 441
Dunbabin, R. L., 448
Dunbar, R. T., 237
W. B., 399
Duncan, G., 263, 266
G. A., 305
G. S., 293
J., 170
J. G., 288
J. W., 359
Mrs. L. C., 368
Dundas, R. H., 198
Dundas-Grant, Sir J., 172
Dundon, J., 318
Dungan, W. W., 305
Dunhill, T. F., 171
T. P., 161
Dunington Grub, H. B., 398
Dunkerly, J. S., 283
Dunlea, W. J., 318
Dunlop, E. M., 284
F. W., 457
R., 178
W. J., 397
W. W. C., 65
Dunn, F. A. S., 332
J. P., 272
J. S., 181, 182
S. G., 507
Dunne, T., 299
Dunnicliff, H. B., 553, 556
Dunstan, A. C., 135
M. J. R., 32, 33
Duporte, E. M., 357
Durant, W. M., 255
Durham, the Bishop of, 65
the Earl of, 65
Durnford, H. G. E., 50
Sir W., 41, 50
Durrant, P. J., 53
Dussault, N. A., 351
Dust, E. R., 184
Dustoor, P. C., 523
Duthie, A. V., 488
G. M., 84
Dutt, B. C., 524
P. K., Benares, 513
P. K., Leeds, 81
P. N., 553
S. C., 524
Dutton, H. R., 558
Duxberry, W. S., 485
Dwerryhouse, A. R., 251
Dwight, T. W., 400
Dwivedi, S. R., 546
Dyde, S. W., 389
Dyer, F. C., 400
Dykes, D. O., 272
F. J., 52
Dymond, D., 170
E. G., 63
J. R., 398
M. G., 83
Dyonnet, E., 354
Dyson, F., 137
G., 171
Dyson, H. V. D., 251
W., 180

Eagle, A., 178
Eales, N. B., 251
W. C., 473
Eardley, F. W., 425
Earl, J. C., 441
R. O., 386
Earle, E., 140
H. G., 568
Earls, J., 301
Earp, F. R., 135
Eason, H. L., 159
J., 274
East, C. F. T., 158
Eastaugh, F. A., 441
Eastham, L., 26
Eastman, M., 338
Easton, J. M., 178
Eastwood, R. A., 178
Eaton, A. H., 300
J. W., 393
Eaves, E. C., 219
Eberts, E. M., 360
Eccles, F. Y., 147
W. H., 170, 171
W. McA., 161
Eddington, A. S., 42, 52
Eddy, N. B., 332
Edelstein, H. H., 491
Eden, T. W., 159
Edgar, C. S., 488
O. P., 400
Edgell, B., 148
Edgeworth, F. H., 36
F. Y., 197
Edie, E. S., 471
Edington, G. H., 285
J. W., 220
Edkins, J. S., 148
Mrs., 148
Edmonds, H. M., 170
Edmondson, A. R., 183
Edmunds, F. B., 394
Edwardes, S. M., 416
Edwards, A. T., 161
C. A., 240
D. M., B.Sc., 91
D. M., 225
E., 228, 230
E., B.Sc., 93
E. D., 145
E. J., 289
E. M., 556
H. T. J., 427
J. G., 198
W. B., 175
W. H., 496
W. M., 199
Edwards-Rees, D. M. M., 68, 69
Edye, B. T., 444
Egerton, A. C. G., 194
C. W., 462
H. E., 197
Eggar, A., 560
M. E., 177
Eggeling, H. F., 271
Eggli, J. E., 92

Eiselen, G. T. S., 482
Elam, C. W., 94
Elbrecht, B., 485
Elder, J. R., 456
Elderton, E. M., 118
Eldridge, A. A., 131
Elgood, W. N., 559
Elkin, S. J., 370
Elkington, G. W., 39
Ellershaw, H., 65, 68, 69
Ellerton, M. K., 92
Elles, G. L., 54
Ellingham, H. T., 131
Elliot, A., 167
T. S., 53
Elliott, C. A., 49
C. C., 474
G. A., 367
J. S., 23
J. R., 441
P. H., 339
T. R., 158
Ellis, A. W. M., 158
C. D., 45, 52
D., 288
D. S., 386
J. C. B., 196
J. H., 368
S. J., 24
Ellis-Fermor, U. M., 147
Ellison, F. O. B., 565, 566
W., 299
Elmes, R. S., 76
Elsden, J. V., 118
Eltoft, H. C. R., 180
Elton, C. S., 194
G., 200
O., 92
Elvins, O. C., 26
Elwes, F. F., 540
Elwood, H., 301
E-Maung, U., 560
Emden, A. B., 202
Emmett, E., 472
Emory, F., 403
Emsley, H. H., 171
Engelbrecht, S. P., 486
Engineer, S. S., 517
Engledow, F. L., 51
English, A., 320
J. S., 567
S., 219
Sir T. C., 161
Eno, E., 535
Enright, M. A., 319
Entwistle, W. J., 188, 283, 288
Epstein, D., 474
I. N., 497
Erith, A. G., 251
Erlenborn, W., 358
Erwin, H. D., 448
Esdaile, A. J. K., 42
P. C., 127
Estelle, M. M., 401
Etherington, F., 388
Etherton, S. L. B., 219
Ethier, E., 376, 377
Ettinger, G. H., 387
Etty, J. L., 250
Eumorfopoulos, N., 120
Eurich, F. W., 83
Eustice, J., 254
Evans, A., 237
A. E., 171
A. G., 158
A. H., 161
A. J., 96
A. M., 92
B. I., 188, 254, 256
C. A. L., 161
D., M.A., 230
D., Mus.D., 236
D. E., 240
D. L., 283
D. O., 367, 373
Miss E., 238
E., 225
E. J., 241
G. T. R., 492
H. J., 117
H. T., 235, 237
I. L., 51, 127
J., 225
J. J., 27
J. T., 225, 233
J. W., 131
J. Y., 225
M. H., 219
N. N., 355
R. T., 236
T. G., 238
T. J., 155, 163
W., 444
W. H., 96
W. J., 226
Evatt, H. V., 443
Eve, A. S., 356
Evennett, H. O., 52
Everidge, J., 161
Evers, H. H., 72
Everson, D. W., 450
Ewan, G., 524
Ewart, A. J., 430
J. C., 272
Ewart-Greaves, Sir W., 520
Ewert, A., 192, 201
Ewing, I. R., 177
J., D.Sc., 81
J., M.A., 272
J. A., 511
Sir J. A., 269
Ewles, J., 83
Eybers, E., 479
Eyre, J. W. H., 155
Ezekial, E. M., 517

FABER, G. C., 197
Fagan, T. W., 229
Fagge, C. H., 161
Fahmi, G. S., 370
Fahy, T., 312
Faid, W., 568
Faill, C. J. C., 37
Fairbairn, J. S., 156
Fairbank, H. A. T., 156
Fairbourne, A., 124
Fairbrother, F., 176
Fairfax, E. W., 443
Fairgrieve, J., 144
Fairhurst, R., 97
Fairley, B., 401
Fairlie, M., 295
Fairweather, D. A., 270
Falconer, A. W., 473
J. W., 342
Sir R. A., 397
Falkinor, N. M., 307
Fallon, J., 524
Fantham, H. B., 493
Faribault, R., 376
Faridi, A. H., 510
Farjeon, H., 171
Farley, W. A., 86
Farmer, E., 140
J. B., 130
J. H., 364
Farnell, L. R., 189, 198
L. R., LL.D., 293
V., 202
Farquhar, J. N., 180
Farquharson, A. S. L., 201
Farr, C. C., 461
Farran, A. C., 516
Farrantidge, T., 414
Farrar, C. B., 405
Farrell, J. F. E., 289
Farren, W. S., 130
Farrington, B., 472
Farrow, B., 125
E. M. O., 191, 203
M., 202
Farthing, J., 356
Faucher, P. V., 351
Faulkner, A. W., 344
J. M., 69
Mrs., 255
Faull, J. H., 398
Faure, J. C., 485
Fauteux, A., 374
N., 375
Fawcett, C. B., 82
E., 33
J., M.D., 158
J., M.A., 317
Fawn, G. F., 37
Fawsitt, C. E., 440
Fawtier, R., 178
Fay, C. R., 403
Fazil-i-Haqq, Q., 553
Fearnsides, W. G., 218
Fearon, W. R., 304, 307
Fedden, W. F., 161
Fegan, E. S., 54
Feiling, K. G., 198
Fell, J., 517
Fellows, Miss, 149
Fenelon, K. G., 270
Fenn, B., 219
Fenton, J., 568
H. J. H., 63
W. J., 158, 164
Fenwick, A. H., 568
C. B., 76
Fergus, T., 458
Ferguson, A., 136
A. S., 77
D. D., 414
Sir H. L., 457
H. S., 175
J., 293

Ferguson, J. A., 415
J. G. W., 481
J. H., 273
J. I., 415
M. M., 282
R., 414
R. G., 369
R. M., B.A., 393
R. M., M.Sc., 183
W., 289
W. C., 399
W. S., 397
Fergusson, C., 143
D. C., 271
Fernandes, T., 547
Fernandez, A. C., 517
C., 516
R. C., 432
Ferrar, W. L., 198
Ferrier, R. M., 37
Ferro, E. H., 499
Ferron, A., 376
Fetherstonhaugh, E. P., 367
Feuga, R., 542
Fforde, W. J., 301
Fiddes, E., 175, 178
J., 265
Fidler, I. M., 440
Fiedler, H. G., 192
Field, G. C., 98
S., 169
Fielden, F. J., 510
V. G. L., 300, 301
Fieldhouse, H. N., 218
Fielding, G. H., 343
Fields, J. C., 402
Fifoot, C. H., 198
Files, H. G., 355
Filion, E., 375
Fillion, Ph. J., 349
Filon, L. N. G., 119
Finch, E. F., 221
G. I., 131
Fincken, E., 473
Findlay, A., 264
D. H., 79, 80
J., C.A., 491
J., M.A., 93
J. J., 187
L., 284
W., 364
W. M., 263
Finlay, G., 434
T. A., 315
T. M., 271
T. Y., 273
Finlayson, A., 456
C. M. B., 426
G. A., 567
H. H., 425
J. N., 366
R. N., 425, 426
Finnan, E., 299
Finnegan, J. M., 298
Fiqar, B. N., 535
Firth, A. C. D., 158
Sir C. H., 200, 215
E. M., 220
J. B., 246
J. L., 37
Firth, J. R., 556
Fiset, L. J. N., 351
Fisher, A. G. B., 456
E. M., 440, 445
H. A. L, 189
J. H., 172
J. W., 126
M. S., 289
N., 229
R. A., 49
S. M., 414
Fisk, W. M, 356
Fitch, A. A., 95
W. O., 525
Fitchett, F. W. B, 457
Fitt, A. B., 462
Fitzgerald, A. A., 431
D. P., 317
J. G., 404
W., 178, 487
FitzGerald, K., 147
Fitzgibbon, T. E, 318
Fitzherbert, J. A., 270
Fitzpatrick, Sir C., 350
T. C., 41, 51
Fitzwilliams, D. C. L., 161
Flahaut, J., 374, 377
Flammer, E., 387
Flanagan, L., 315
Flattery, T. P., 444
Fleet, H., 299
Fleming, A., 155
G. B., 284
J. A., 117
J. D., 371
R. A., 274
W. A., 269
Flemming, A. L., 35
P., 172
Flenley, R., 401
Fletcher, F., 243
F. T. H., 25, 232
G. W., 369
H. M., 156
M., 75, 77
M. C. G., 414
R. D., 370
R. F. W., 202
S. H., 450
Sir W. M., 52
Fleure, H. J., 230
Flight, E. G., 236
Flint, E. M., 539
E. R., 83
H. T., 126
Flood, G. M., 183
Florence, P. S., 50
Flower, R. E., 117
Fluck, G. H., 345
Flügel, J. C., 119
Flynn, Hon. E. J., 350
T. T., 448
Foakes Jackson, F. J., 49
Foder, A., 497
Foenander, O. de R., 432, 434
Fogarty, O. J., 498
Foggie, W. E., 295
Foley, R. A., 166
Foligno, C., 193
Folland, H., 2 0
Forbes, A. G., 473
A. M., 360
M. D., 48
N., 194, 200
P. B R., 270
Ford, F., 331
G. P., 254
H. E., 401
N. H. C, 398
P., 77
Forde, C. D., 117
Fordham, A. A., 240
M. G. C., 94, 452
Fordyce, A. D., 95
W., 273
Foreau, G, 539
Forest, C., 375
Forker, M., 312
Forman, F., 473
Formosa, G., 498
Forrest, J., 294
Forrester, J. C., 305
R. B., 139
Forsey, G. F., 254
Forster, E. S., 175, 217
L., 568
M. O., 563
R. B., 86
Forsyth, D., 158
R. W., 132
T. M., 479
W. L. 540
Fortescue, C. L., 131
Fortier, E. R., 351
L. E., 376, 377
Forward, M. R., 560
Foster, A. H., 437
Sir G., 116, 118
H. W. A., 402
J. G., 197
J. S., 356
P. F., 236
R. B. B., 540
T. S., 34
W., 414
W. H., 50
Fothergill, W. E., 181
Fotheringham, A., 462
J. B., 411
J. K., 191
J. T., 404
Foucar, H. O., 415
Fouché, L., 485
Foucher, A. A., 376
Foulerton, A. G. R., 119, 157
Fourie, P. J. J., 486
Foweraker, C. E., 460
Fowlds, Hon. G, 462
Fowle, M., 202
Fowler, A., 130
J. S., 279
R. H., 44, 52
Mrs., 148
Fowweather, F. S., 84
Fox, A. C., 451
C., 138
C., M.A., 43, 48, 51, 53, 59
C. F., 235
H. M., 49

Fox, I., 160
W. S., 156
W. S., Canada, 413
Foxley, B., 239
Foxwell, H. S., 51, 120
Foy, C., 350
Fraenkel, P. H., 450
Framery, B., 355
Frances, D , 523
Francis, E., 445
E. C., 51
E. A., 202
E. G., 32
F., 32, 33
W. E., 37
Frankau, C. H. S., 161
Franken, A., 479
J. L. M , 488
Franklin, K. J., 195, 200
Franks, A. H., 247
R. S., 32, 35
Fraser, A. D., 37
A. R., 474
C. McL., 339
Sir D. D., 176
D. J., 360
D. T., 404
E., 120
F. R., 158
G. K., 264
H. J., 367
I. M., 395
J., Belf., 304
J., M.A., 191, 198
J., M.D., 274
J. R., 359
J. S., 274
M. S., 369
P., 35
R., 380
R. G. J., 265
W. G., 559
W. P., 393
Frawley, N. D., 404
Frazer, J. E. S., 154
Sir J. G., 52, 270
Frèbault, C., 25
Fredericton, Bishop of, 347
Freeman, J., 155
K., 236
R., 414
Freemantle, I. M. E., 480
French, C. H., 430
C. H., M.A., 48
F. G., 560
H. S., 158
J. G., 157
R. de L., 358
W. E., 82
Frendo, P. G., 498
Frere, W. H., 83
Freund, M., 472
Frew, R. S., 172
Fricker, H. A., 402
Friedlander, E., 489
Friel, E. S., 307
Frier, J. D., 170
Frigon, A., 378
Fripp, Sir A. D., 161
Fritch, F. E., 135
Frith, J., 177
Froehly, F. X , 539
Froggart, G. H., 221
Frost, G. B., 386
Fry, E. J., 151
F. M., 359
H. K., 426
M. W. J., 304, 305
W. K., 163
Fryer, C. E., 356
J. R., 330
Fulford, H. W., 48
Fullagar, W. K., 432
Fuller, E. B., 474
G. R., 426
T. A., 474
W., 426, 427
Fullerton, A., 301
Fulton, A. R., 293
A. S., 145
J. D., 281
J. F., 194
J. S., 394
W., 265
Funnell, W. S., 398
Furber, R. I., 444
T. F., 447
Furner, A. S., 123, 491
Furness, L. T., 355
S. M. M., 147
Fusey, A., 384
Fyfe, M. L., 456
T., 42
W. H., 199
Fyffe, D., 77
Fynes-Clinton, O. H., 233
Fynne, R. J., 305
Fyson, P. F., 538
Fyvie, W. W., 265

GABELL, D. P., 163
Gabriel, R. M., 255
V., 566
Gadd, C J., 124
H. R., 68, 77
Gadow, H., 46, 61
Gadre, B. N., 547
Gadzil, D. R., 518
Gagnon, A., 377
C., 350
Gagué, J. A., 350
Gaiger, S. H., 94
Gaillard du Champris, H., 349
Gaiser, L. O., 364
Gaitonde, V. M., 516
Gajendrugadkar, A. B., 516
Galbraith, H. G., 471
Galea, R. V., 498
Gallie, W. E., 405
Gallop, E. G., 49
Galloway, G., 292, 293, 295
H. P. H., 370
Galt, A. S., 80
Gamble, C. W., 184
F. W., 26
Gamgee, L. P., 27
Gamlen, H. E., 71
Ganado, E., 498
Ganderton, H. Y., 69
Gandhe, K. K., 546
Gandhi, N. P., 514
Gandier, A., 406
Gandy, E. W., 154
Ganga Ram, 532
Ganguli, A. C., 524
N., 547
N. N , 520
S. K., 557
Ganguly, A. N., 553
D. N., 527
Gann, T. W. F., 97
Gannon, E. D., 264
Gant, Hon. T., 449
Garabedian, D., 202
Garde, G. K., 547
Garden, R. R., 36
Gardiner, A. F., 539
F., 273
G. F., 33
J. S., 46, 49
R. J., 388
T. W., 547
W. T., 274
Gardner, A., 34
Mrs. C., 508
E. A., 101, 116
E. G., 119
J. A., 155
O., 345
P., 215
R., 49
W. A., 370
Gardner-Smith, P., 49
Garicpy, C. N., 350
Garmonsway, G. N., 229
Garneau, Sir G., 349
P., 384
Garner, W. E., 117
Garnett, A. C., 426
A., 218
Garnsey, A. H., 444
Garrett, H. L. O., 556
J., 556
J. G., 25
W., 273
Garrick, J. A., 289
Garrod, Sir A. E., 195, 198
H. W., 194, 199
Garrow, J. M. E., 404
Garry, R. C., 283
Garside, S., 147
Garstang, J., 90
W., 83
Gartrell, H. W., 426
Garvie, A. E., 152
Garwood, E. J., 118
Gaselee, S., 50
Gask, G. E., 161
Gaskoin, C. J. B., 44, 48, 53, 59
Gaster, V. I., 504
Gatenby, J. B., 307
Gates, E. C., 444
G. E., 560
Mrs. H. B., 560
R. R., 124
Gatt, J. L., 498
Gattel, B. M., 375
Gattie, V. R. M., 168
Gaudreau, S., 351

Gaul, E. G., 176
Gault, E. R., 427
Gautheron, R , 343
Gauthier, G., 374
H., 375
O., 375
Gawler, J. S., 430
Geddes, A E. M., 265
S., 289
W. F., 368
Gemmell, D. M., 479
Gemmill, J. F., 292, 294
Gendreau, E., 375
J. G. A., 374
Généraux, D., 375
Genest, O., 350
R., 375
Genève, C. A., 125
Genner, E. E., 198
George, E., 491
H. J., 199, 200, 202
Gérin-Lajoie, A., 376
Gerrard, H., 177
J. M., 539
Gettys, W. E., 357
Geyer, E. W., 282
Geyl, P., 117, 147
Ghani, M. A., 546
Gharpure, J. R., 518
Ghosal, S. C., 547
S. C., M.A., 557
Ghose, P. C., 513
R. N., 524
S. L., 553, 559
Ghosh, E. N., 523
J., 525
J. C., 520
J. C., D.Sc., 527, 528
J. C., D.Litt., 557
J. N., 558
K. P., 522
L. K., 558
L. N., 509
M. K., 507
P., 523
P., D.Sc., 521
R. N., 508
S. N., 528
Ghoshal, U. N., 523
Ghulam Nabi, Sd., 550
Ghurye, G. S., 515
V. S., 517
Gibb, A. W., 264
D., 272
H. A. R., 145
Gibbon, H. H., 197
Gibbons, W. M., 217
Gibbs, O. S., 344
Giblin, N., 356
Gibson, A., 370
A. G., 195
A. H., 177
A. J., 444
C. S., 155
D. T., 281
G. A., 283
G. W., 86
J., 233
M. J., 274
M. J., F.R.C.S.E., 294
Gibson, R., 182
R. W., 493
S. K., 182
T. W., 388
W., 388
W. H. H., 443
W. R. B., 432
Gie, S. F N., 488, 489
Giffen, M. H., 471
Gifford, J. L. K., 437
Gignac, J., 349, 350
Gilbert, E. W., 147
H., 426
J. A., 350
L. F., 117
Gilbert-Carter, H., 61
Gilchrist, D. A., 75
G., 33
H. A., 331
J., 82
J D. F., 473
L., 403
Giles, A. F., 271
H. A., 47
P., 45, 49
Hon. Sir R S., 559
Gilham, C. W., 83
Gill, C., 24, 25
E. W. B., 194, 199
J. M., 443
J. W., 145
R. A., 77
Gillespie, C. M., 83
P., 399
Gillett, C. S., 51
E. W., 24
Gilliat, Mrs., 154
Gilliatt, W., 159
Gillies, G. A , 338
M. M., 91
S., 443
Gilligan, A., 82
Gillson, A. H. S., 356
Gilmore, D. C., 560
J. A., 472
Gilmour, C. R., 369
J., 73, 77
W. H., 97, 98
Gilroy, J., 263, 265
Gimkewitz, F., 492
Ginsberg, M., 140, 476
Ginzberg, S., 497
Giraud, J., 69
Girdlestone, C. M., 51, 52, 53
G. R., 195
Girdwood, R. L., 493
Girvan, R., 282
Gladstone, R. J., 124
Gladwyn, A. E., 170
Glaisher, J. W. L., 52
Glaister, J., 284
J., Jr., 284
Glason, J. A., 250
Glassco, A. P. S., 354
Glasstone, S., 243
Glauert, H., 52
Glazebrook, A. J., 403
G. P. de T., 401
Sir R. T., 52
Gleave, H. H., 220
Glenavy, Baron, 304
Gloag, W. M., 280, 284, 286
Glover, M. R., 151
T. J., 23
T. R., 41, 44, 52
Glover-James, H., 254
Gloy, O. H. M., 456
Gluckmann, H., 494
Glynn, E. E., 96
Glynne, A., 183
Gnodde, E. P. D., 289
Goadby, Sir K. W., 155
Godbole, N. N , 513
S. N., 547
Goddard, E. J., 437
Godfrey, F. La T., 304
Godley, A. D., 215
Godson, C. A., 522
Godwin, H., 43, 48
Goffin, R. C., 525
Goggio, E., 402
Goil, J. N., 533
Goitein, H., 138
Gokhale, G. N., 518
L. K., 547
Gold, M., 331
Goldie, W., 404
Golding, N. S., 339
Goldsbrough, G. R., 77
Goldsmith, P. G., 404
Goldsworthy, L. J., 559
Goligher, W. A., 304, 305, 306
Golla, F. L., 159, 166
Gollancz, Sir I., 125, 243
Gombert, E., 539
Gomme, A. W., 281
Good, E M. F., 430
Goodall, A., 274
E., 237
J. R., 359
Goodbody, F. W., 117
Goodchild, G. F., 101
J. T., 510
R. S., 60
Goode, C. W., 143
Goodhart, A. L., 48
G. W., 160
Goodrich, E. S., 194, 199
Goodwillie, J., 265
Goodwin, A. J. H., 471
B. G., 27
L. F., 386
W., 143
Goodyear, E., 118
Goonewardene, H. O., 565
Gopal Singh Chawla, 556
Gopalakrishna, P. G., 559
Gopalaswamy, M. V., 543
Gordon, A. H., 359
A. R., 355
A. R., Ph.D., 398
C. G. S., 95
D. M., 390
E., 397
E. V., 82
G. S., 192, 199
J., 84
K. W., 395
M., M.B., 494
M. L., 243

Gordon, P. F., 288
R. J., 414
R. K., 331
T. E., 307
W., 271
Miss W., 387
W. L., 471
W. T., 125
Gordon-Taylor, G., 161
Gore, C., 105, 152
Gorman, M. J., 316
Gorrell, J. A., 369
Goss, F. R., 81
Gosse, A. H., 158
Goswami, C., 509
Gosselin, Mgr., 350
Gotsman, B., 492
Goudge, H. L., 196, 197
Goud, P. N., 540
Goudie, W. J., 282
Goudy, A. P., 46, 53
Gough, C. E., 82
J. H., 85
J. W., 34
W., 83
Goun, Sir L., 374
L. M., 376
Gould, E. L. P., 161, 166
M., 137
Goulden, C. B., 160
Goulding, S M., 202
Gour, Sir H. S., 531
Ramdeen, 546
Gourley, C., 288
Govinda Pillai, M. K., 540
Gow, A., 130
A. S. F., 52
Gowanloch, J. N., 342
Gowland, W. P., 456
Goyer, M., 34
Grace, N. J., 393
S. F., 93
Graebner, R. M., 450
Graham, C. I., 157
D. A. L., 404
G., 158
H., 299
J. I., 25
J. M., 275
J. S., 405
M., 293
R. J. D., 270
R. P. D., 356
S., 284
S. N., 387
W. C., 355
Graham-Brown, G. F., 201
Graham-Smith, G. S., 46
Grahame, Tom, 269
Grahamstown, Bishop of, 483
Grandbois, J. E., 350
Granger, F. S , 246
Grant, A. J., 82
A. J., M.D., 415
C. C., 477
G., 254
G. W., 342, 344
H. C., 368
H. G., 344
J., M.Sc., 182
Grant, J., M.A., 263
J. C., 265
J. C. B., 366
J. W. G., 238
K., 426
W. G., 493
Grantham, G. J., 176
T. R., 152
Grant-Ives, C. E., 50
Grassie, J. C., 289
Grattan, J. H. G., 118
Gravel, J., K.C., 350
J., 384
Graves, T. C., 26
Graveson, C. C., 170, 173
Gray, Bishop, 333
A., 265
A., M A., 41. 49
A. A., 284
A. M. H., 156
F. W., 264
G. C., 332
H. J., 263
H. T., 172
J., 46, 48, 50, 51, 53
J., M B., 266
J. A., 387
J. G., 283
J. L., 248
L. H., 193
L. T. M., 124
M. F., 338
M. M., 282
R. A. H., 75
R. C., 283
T., 288
T. T., 311
W., 289
W. M., 290
Greathead, L. B., 473
M., 483
Greaves, F. W. M., 85
H. G., 238
W. H., 403, 412
Green, A., 229
Mrs. A., 254
E. W., 538, 539
F. C., 373
F. W., 199
G., 283
G. H., 229
H. G., 247
H. H., 485
H. L. H. H., 52
H. M., 440
John, 298
M. H., 201
R. B., 71
S. E., 132
S. L., 136
S. W., 152
W. H., 430
Greene, D. C., 305
E., 330
Greener, H., 484
Greenfield, J. G., 174
Greenish, A. J., 171
H. G., 160, 167
Greenlees, M. E., 476
Greenshields, R. A., 358
Greenwood, F. R., 26
J. N., 432
L. H. G., 49
M., 118
Greeves, R. A., 160
Gregoire, J. E., 350
Gregory, C. C. L., 119
E., 219
H. C., 127
H. S., 132
J. C., 81
J. W., 282
R. H., 432
Greig, A. R., 394, 395
E. D. W., 275
J., 338
J. S., 431
J. Y. T., 75
Grenier, F., 565
Grensted, L. W., 201
Gresson, K. M., 461
Gretton, R H., 202
Grey, Viscount, 75
Greysvenstein, J. H. J. A., 486
Grier, J., 181
L., 190, 202
Grierson, A. M. M., 274
H. J. C., 271
Grieve, A. J., 180
Griffin, A., 37
A. K., 342
B., 406
Griffith, A. D., 160
L. Ll., 195
H. D., 265
I. O., 193, 197
J. J., 228
Sir J. P., 306
R. O., 91
W. G., 320
W. H., 168
Griffiths, A., 138
B. M., 68
C. A., 238
G. S., 247, 249
J., 226
J., M.D., 47
P. L., 448
Grillo, E., 282
Grimes, M., 317
Grimsdale, H. B., 160
Grindley, E. N., 473
Grindon, H. M., 524
Grist, Mrs., 81
Grobbelaar, C. S., 489
Groff, C. L., 368
Gronbeck, V., 123
Gröndahl, I. C., 120
Grondin, S., 351
Groom, P., 130
Grose, S. W., 48
Grosskopf, J. F. W., 488
Grossmann, J. P., 462
Groulx, L., 375
Grout, J. L. A., 220
Grove, A. J., 220
O., 33
Groves, C. S., 472
E. W. H., 37
L. G., 255

Grubb, A. C., 393
V. M., 151
Grube, G. M. A., 240
Gruffydd, W. J., 237
Grundy, G. B., 198
R. H., 460
W. H. R., 183
W. W., 236
Gualtieri, E., 34
Guérard, J., 351
Guérin, J. J., 376
Guertin, A., 384
Guess, G A., 400
Guest, D., 220
W. S., 399
Guha, B C., 528
P. C., 527, 530
P. K., 527
S. C., 560
S. K., 547
Guigou, Mlle. M., 247
Guilford, E. L., 249
Guillaume, A., 68
Guillebaud, C W., 51, 52
Guillemard, Sir L. N., 566
Guiton, P. A., 481
Gulasekharam, F. H. V., 564
Gulatti, R. D., 514
Gulbahar Singh, 553
Gullan, A. G., 95
Gulland, G. L., 274
J. M., 191
Gulliver, G. C., 218
Gummer, C. F., 387
Gunasekera, S. T., 565
Gunderson, G., 432
Gundry, P. G., 486
Gunjikar, K. R., 516
Gunn, J. A., 195
J. A., B.Sc., 432, 433
J. A., M.D., 370
J. W. C., 474
R. M. C., 442
Gunnell, D., 82
Gunson, J. B., 426
Gunstonperger, J., 349
Gunther, R. W. T., 199
Gunton, J. A., 413
Gupta, B. M., 534
C. M., 510
K. N., 514
L. D., 507
U. N., 528
Gurbaxani, H. M., 517
Gurd, F. B., 360
Gurdon, P. R. T., 145
Guthrie, F. C., 91
T., 95
Gutteridge, H. C., 105, 168
Guttman, Dr., 497
Guy, J., 384
Guyler, T. W. C., 97
Gwilt, R. L., 269
Gwyer, B. E., 190, 202
Gwynn, E. J., 304, 305
R. M., 304, 305
Gwynne-Vaughan, Dame H., 137
Gyee, Hon. U. M., 559
Gyi, J. A. M., 559
Haantjes, J., 117, 147
Haarhoff, T. J., 491
Haas, A., 539
P., 116
Haasdyk, P. W., 473
Habberjam, C., 132
Habib, Md., 505
Habibullah, S. M., 533
Hackett, J. R, 319
F E., 316
Hackforth, R., 52
Haddon, A. C., 43, 48
Haddow, G. C., 373
Hadfield, G., 36
J. A., 127
Hadi-Hasan, Sd., 506
Hadley, W. S., 41, 50
Hadow, Sir W. H., 217
Hadwen, S., 394
Hafercorn, R., 230
Hafiz, M., 508
Haggen, G. L., 83
Hague, B., 282
Haidar, Sd. A., 514
Haidar Khan, M, 505
Haig, Earl, 292
Sir T. W., 305
Haigh, W, 250
Haindaday, M. Y., 516
Haines, A. H., 143
F. M., 135
Hainsworth, C. H., 218
Hajela, K. S., 535
Halbus, F., 399
Haldane, Viscount, 32, 137, 147
J., 281
J. B. S., 43
J. S., 200
J. S., LL.D., 25
Haldar, H. L., 520
K. P., 560
Hale, A. J., 173
J. C., 414
Haleem, A. B. A., 505
Haley, F. R., 328
Halket, A. C., 147
E. C., 135
Hall, A. A., 75
A. H., 190
A. J., F.R.C.P., 220
A. J., L.R.C.P., 457
D. G. E., 560
E. B., 124
F. W., 201
G., B.Sc., 71, 72
G., B.A., 248
G., M.B., 494
H., 129, 140
H. P., 301
I. W., 36
J., 76
N. M., 367
R. L., 483
Hallam, A. R., 220
W. T., 395
Hallett, H. F., 83
Halliford, D. M., 364
Halliday, E. C., 473
F. W., 178
W. R., 92
Halliwell, D., 180
Hallsworth, H. M., 76
Hallward, B. L., 51
Halpenny, J., 370
Haltenhoff, A. G., 125, 140, 147
Ham, W., 425
Hambleden, Viscount, 124
Hamel, G., 376
Hamer, D., 559
Hamid-uddin-Khan, 506
Hamill, H., 516
P, 160
Hamilton, A. F., 516
C. J., 557
D. E., 398
E. R., 233
G. H., 256
H., 265
H. D., 359
T. G., 370
W. F., 359
Hamilton Smith, E., 127
Hamley, H. R., 517
Hammick, D. Ll., 191, 198, 200
Hammond, M., 24
T. E., 238
Hampshire, P. G., 450
T. R., 301
Hampton, H. V., 517
Hanbury, H. G, 199
Hancock, A., 183
T. A, 328, 329
W. C., 137
W. K., 197
W. T., 426
Handcock, W. R., 243
Handford, S. A., 124
Handley, W. S., 162
Hanif, P. N., 531
Hanley, J. A, 33
Hanna, H. H., 461
W., 94, 95
Hannah, I. C., 47
Hannan, A. J., 426
T. B., 447
Hannay, R. K., 272
Hannon, J. J., 312
Hansen, C., 480
Hanson, H., 152
Hanton, W. A., 184
Haque, M., 524
Har Naram, 532
Harbottle, D., 202
Harcourt, C., 330
Harcum, C., 401
Harden, A., 155
D. B., 264
J. M, 145
Hardie, R P., 272
W. F. R., 199
Harding, H., 499
P., 487
V. J., 405
Hardy, A. E., 394
C. M., 152
D. V. N., 254
F., 417
G. F., 76

Hardy, G. H., 437
G. H., M.A., 192, 200
Rt. Hon. L., 143
Sir W. B., 45, 49
W. G., 331
Hare, D C., 158
H. R., 339
Hargreaves, E. L , 200
R., 93
Harihar-Shastri, 513
Harihar-Shastri, Hyderabad, 550
Hari Ram, 547
Harker, A., 45, 52
G., 441
G. H., 237
Harkness, A., 491
D. E , 462
W. J. K., 398
Harland, S. C., 417
Harlow, V. T., 255
Harmer, F., 177
W. D., 157
Harper, C. J., 434
J., 284
Harries, D. J., 238
Harrington, E. B., 394
J. B., 394
Harris, C. R. S , 197
D. L., 48
D. T., 120
E., 399
E. J., 282
E. S., 249
E. T., 252
H., 25
H. A., 116, 123
H. E., 36
H. J., 119
J. W., 293
N. C., 431
R. K., 440
R. W., 165
Susan, 230
W., 158
W. S., 85
Harrison, E., 41, 52
F. C , 354, 357
G. B., 125
H. St. J., 217
J. D , 332
J. H. G., 171
J. W. H., 77
L., 442
L. W., 163
T. J., 368
W. J., 44, 48
Harriss, G. M , 306
Harrod, H. R. F., 198
Harrower, J., 263, 264
J. G., 566
Harston, G. M., 569
Hart, B., 159
F., 369
K. R. M., 443
N. C., 413
Hart-Synnot, R. V. O., 196, 201
Harte, W. J., 243
Harting, P., 123
Hartley, B. S., 338
E. G. J., 191
H. B., 197
J N. J., 274
K. T., 191
Sir P. H.-S., 158
Hartog, Sir P. J., 527, 530
Hartree, D. R., 52
Hartridge, H , 45, 50
Hartung, E. J., 430
Hartwell, G., 127
Harty, J. P. I., 36
Harvey, D. C., 367
E. L., 382
F. E. E., 59
F. W., B.Sc., 171
G. M., 24
Hon. H., 330
J., 132
J. W., 26, 27
L. A., 272
S. C., 489
W., 53
Harwood, H. F., 131
L. de L., 376
S. D. F., 143
Hasan Alavi, 536
Hasan, G., 535
M., 527
Sd. H., 505
Haselfoot, C. E., 198
Haslam, W. F., 23
Hassé, H R , 35
Hastings, S., 157
Haswell, W. A., 447
Hatcher, H. W., 355
Hate, V. N., 517
Hattersley, A. F , 481
Hattie, W. H., 344
Hatton, J. L. S., 105, 135
R. G., 75
Haughton, W. S., 307
Haultain, Sir F. W. G., 393
H. E. T., 400
W. F. T., 274
Hauser, H. B., 432
Havelock, T. H , 77
Haward, W. I., 148
Hawken, R. W. H., 437
Hawkes, C. J., 76
L., 147
Hawkins, C. C., 117
H. L., 251
Haworth, A., 188
P., 34
W. N., 23, 79
Hay, A. L. B., 568
D., 224
J., 95
J. B. M., 177
M., 263, 266
R., 289
W. D., 388
W. G., 456
Haycraft, J. B., 238
Hayden, H. A., 236
M. T., 314
W., 384
Haydock, G. H., 283
Haydon, E. M. E., 147
Hayens, K., 293
Hayes, E. H , 200
M., 312, 315
R. A., 53
Haynaud, A. M., 367
Haynes, F., 194
G S , 47
H. T., 450
Hayter, A. C. K., 17
Haywood, W., 24
M. C., 69
Hazen, Sir D., 382
Hazam, G. P., 558
Hazel, A. E. W., 189, 194, 198, 200
Hazeltine, H. D., 44, 48
Hazlitt, V. H., 148
Head, L. H., 73
Headlear, B. M., 139
Headridge, D., 182
Healey, M. J., 97
Heaney, F. S., 96
Heap, H , 182
Hearnshaw, F. J. C., 125, 168
Heath, A. E., 100, 240, 241
A. C., 126
Heather, H. J. S., 495
Heatley, D. P., 271
Heaton, H., 387, 390
T. B., 198
W. H., 246
Heaven, J. C., 37
Heawood, P. J., 65, 68
Hebb, T. C., 339
Hebblewhite, W. R., 447
Hebditch, G. L., 480
Heberden, S., 493
Hebert, E., 375
J., 384
P., 349
Hébert, R., 376, 377
Hector, J. M., 484
Hedges, R. Y., 178
Hedley, J. P., 156
Hedman, T., 401
Heilbron, I. M., 91
Heiman, H. L., 493
Heimpel, L. G., 357
Heinzelmann, J. H., 367
Heiser, F. B., 97
Heitland, W. E., 52
Hele, T. S., 43, 49
Helm, J. H., 177
Helweg, J. H., 120
Hely-Hutchinson, C. V. N. H., 473
Hem Raj, 553, 555
Hemingway, G. Y., 192
Hemmeon, J. C., 356
Hemmy, A. S., 556
Henderson, A., 281
A. G., 461
B. W., 198
C. G., 243, 244
D. K., 284
F. W., 538
G. D., 205
G. G., 280, 281
G. H., 343
H. L., 200

Henderson, J., M.A., 126
J., Canada, 338
J., M.D., 284
J. M., 265
J. T., 357
M., 438
R. C., 273
V. E., 405
W. D., 35
W. W., 558
Hendrick, J., 263
Hendrikz, P., 483
Hendry, A. W., 266
F. W. F., 263
J., 285
R. A., 100
W. B., 404
Hendy, F. J. R., 191
Henley, F. J., 317
Henn, T. R., 51
Hennigar, G. R., 344
Henniker, L., 247
Henning, M. W., 486
Hennings, A. E., 339
Henry, A., 316
C. K. P., 357, 360
D. C., 52, 176, 179
F. G., 357
J. M., 304
M., 442
R. M., 298, 299
Hensman, Mrs. S. G., 542
Hepburn, D., 235
G. G., 183
H. H., 333
M. L., 160, 174
W. G., 360
Herapath, C. E. K., 36
Heras, H., 517
Herbert, D. A., 437
J. B. M., 176
Hereus, C. E., 457
E. O., 432
Herd, S. B., 96
Herdener, C. F., 68, 69
Herdt, L. A., 358
Herford, C. H., 177
Heriot, T. H. P., 288
Herman, R. A., 44, 52
Herner, M. C., 368
Herrero, M., 46
Herring, P. T., 292, 294, 295
Herringham, Sir W. P., 147
Herriott, E. M., 460
G. H., 367
Hertz, W. A., 145, 497
Hertzfeld, G., 273
Heslop, A., 75
Hess, J. M., 539
Hetherington, H. J. W., 245, 283, 288
Hett, A. S., 568
M. L., 148
Hewat, A. F., 274, 275
Hewer, A. R., 448
E. E., 161
Hewett, A. F., 282
Hewitt, J. A., 126
R. M., 247, 249
Hewlett, Prof., 129
Hewlett, R. T., 163
Hey, S. D., 85
W. H., 181
Heycock, C. T., 44, 50
Hibbert, E., 183
W. N., 168
Hibbins, W. G., 218
Hickinbotham, E., 97
Hickmbottom, W. J., 23
Hickling, G. A., 76
Hickman, E. M., 84
H. R. B., 35
Hicks, C. S., 426
G. D., 119, 121
J. A. B., 160
R. D., 52
R. K., 387
Hickson, S. J., 180
Hiebert, P. G., 366
Higgins, A. L., 135
A. P., 44
E. C., 150
R., 289
T. S., 474
Higgs, H., 120, 233
Higham, C. S. S., 178
F. M. G., 178
J., 177
T. F., 201
Hight, J., 460
Hignett, C., 198
Hilborn, H. W., 402
Hilditch, T. P., 91
Hildyard, M. C., 137
Hiley, W. E., 192
Hill, Alex., 254
Alfred, 263
A. V., 120
D. U., 328
F. T., 130
H., M.A., 240
H., B.Sc., 170
H. H., 317
H. W., 337, 338, 415
J. C., 97
J. P., 116
T. G., 116
W. C. O., 23
Hiller, K., 433
Hillhouse, P. A., 283
Hilliard, E., 196, 197
Hillyard, R. E., 380
Hilton, H., 148
I. A. F., 240
Hiltz, M. C., 368
R. A., 347
Hinchley, J. W., 131
Hind, A. M., 191
Hinde, G., 69
Hindmarsh, E. M., 442
T. A., 72
W., 69
Hindshaw, W., 177
Hingston, C. A. F., 540
D., 377
Hinkel, L. E., 240
Hinshelwood, C. N., 201
Hinton, A., 171
J. W., 457
W. J., 568
Hipsley, P. L., 444
Hira Lal, 531
Hirde Narain, 531
Hiriyanna, M., 543
Hirschfeld, H., 120, 145, 172
Hirst, E. L., 76
E. W., 180
F., 33
M. E., 24
Hislop, G., 271
Hitchcock, A. de P., 434
E. V., 118
Hitchens, A. P., 94
Hitchins, W. W., 252
Hla-Baw, U., 559
Hla-Bu, Mg., 561
Hobhouse, Rt. Hon. H., 32
L. T., 140
Hobson, A. D., 272
E. W., 44, 48
F. G., 195
G. V., 523
Hodder, G. W., 63
Hodgins, L., 338
L. C. A., 400, 411
Hodgkin, R. H., 200
Hodgkinson, J., 199
Hodgson, C. A., 443
I. A., 431
N., 72
T., 132
V. M. L., 492
Hodivala, S. H., 517
Hodkin, F. W., 224
Hodsman, H. J., 85
Hoernle, Mrs., 491
R. F. A., 492
Hoexter, O., 479
Hoffert, W. H., 86
Hofmeyr, Hon. J. H., 484
J. I., 488
Hogan, E. V., 344
J. E., 307
Hogarth, D. G., 199
Hogben, J. M., 462
L. T., 357
Hoge, J., 489
Hogg, A. F., 174
A. G., 538
M., 142
Hoggett, T. J., 82
Holcroft, C., 97
Holdaway, F. G., 426
Holden, H. S., 246
Holdsworth, W. S., 194, 197
Holgate, J., 82
Holland, C. T., 96
E., 156
Sir T., 130
Sir T. E., 197
Hollidge, D. H., 425
Hollingworth, H., 50
Hollis, T., 86
Hollond, H. A., 44, 52
Holloway, J. E., 456
J. E., Cape, 487
Holmam, W. L., 404
Holman, B. W., 132
Holme, E. R., 441
Holmes, A., 68

Holmes, A. H , 175
E. G , 51
G. M., 172
G. U., 332
S., 37
Holroyd, M., 197
Holt, G. E., 401
Hone, F. S., 427
Honey, M. E. D., 150
Honeybourne, D. M., 148
Honoré, D., 539
Hood, F. C., 68
H. R. T., 273
Hoogenhout, M. N., 484, 485
Hook, A. S., 440
Hooper, F. W , 97
Hoops, A. L., 566
Hooton, J. R., 443
Hope, C. W M., 157
E., 191, 199
E. W., 91, 95
Hopkin, D. W., 131
Hopkins, B. H., 388
Sir F. G., 42, 52
L. C., 145
Prince, 119
W., 68
Hopkinson, A , 42, 49
A. D., 76
Hopper, C. R., 368
I. V., 289
Hopson, M. F., 163
Hopwood, D., 488
F. L., 161
Horan, B. W., 406
Horder, Sir T. J., 158
Horgan, E. S., 307
Horn, D. B., 271
Horne, E. A., 557
G. F. T., 137
Hornell, W. W., 568
Horner, A. E , 373
E. F., 171
Horrocks, H., 51
J. W., 255
Horrowitz, J., 497
Horrox, L., 243
Horsburgh, E. M., 272
Horsfall, W. N., 442
Horton, F., 150
W., 91
Hosgood, B., 147
Hosking, L. F. V., 450
Hoskings, A. A., 270
Hoskyns, Sir E. C., 48, 51
Hossain, H., 524
Houghton, E., 182
Houldsworth, H. S., 85
House, H. W., 200
Housman, A. E., 43, 52
Houston, G. C., 68
J., 298
T., 300
Houstoun, R. A., 283
How, J. H., 68
W. W., 199
Howard, C. P , 359
E. E., 358
Sir H. F., 52
J. V., 131
Howard, R. J , 162
R. T., 97
S. C., 246
Howarth, F., 130
G. B., 85
W. G., 157
W. O., 176
Howden, M. P., 92
R., 71
Howe, C. D., 400
G. W. O., 282
J. E., 367
Howell, A., 237
A. G., 417
C M. H., 158, 159, 172
O. R , 293
W. B., 360
Howells, G., 525
Howes, E. A., 330
R. B., 472
Howgrave-Graham, R. P., 170
Howie, G., 77
Howitt, M. H., 355
Howland, G. W., 404
R. C. J., 119
Howley, J. F. W , 320, 321
Hoy, A., 431
Hoyland, J. S., 547
Hudleston, L. J., 229
Hudson, A. C., 172
R. G., 82
Hudson-Williams, T., 233
Huebner, J., 183
Hughes, A. D. M., 24
A. M. D'U., 201
C H. M., 154
C. L., 23
E., 299
E C , 162
E. E., 240
F. W., 414
G. H., 271
H. C., 42, 51
H. M , 53, 59
H. V., 94
J., 225, 229
J. D. I., 82
J. S., 191
K. H., 301
L. H., 444
P. J., 382
P. T., 26
R. W., 125
T. A., 555
T. H., 288
T. M., 182
W., 332
Hugill, W. M., 366
Hugo, T. J., 486
Huk, A., 508
Hume, G., 405
J , 81
J. B., 154
J. G., 402
W. E., 71, 72
Hummel, F. H., 299, 302
Humphrey, G., 387
Humphreys, H. F., 27
J., 23
Humphries, J. E , 264
S., 168, 170
Humphry, R. H , 171
Hunkin, J. W., 41, 49
Hunt, A. P., 217
A S., 193, 200
B. C., 342
E. L., 155
F. O., 218
G. H., 158
H. K., 560
H. W., 35
Hunter, A , 398
C , M.Sc., 33
C., M.D., 369
G., 405
G. R , 547
H , 169
J. H., 295
R. E., 80
R. H., 298
T., 533
T. A., 464
T. C., 72
T. H., 347
W., 289
W. K., 284
W. M , 301
Hunton, S. W., 380
Huntsman, A. G., 326, 398
E., 246
Huq, S. M , 558
Hurlbatt, E., 354
Hurlburt, C. W., 332
Hurley, A. E., 403
L. E., 430, 432, 434
T. E. V., 433
Huron, Bishop of, 415
Hurst, A. F., 158, 159
G. H., 121
G. H. J., 168
H. N., 488
Hurtley, W. H., 155
Husain, H., 535
M. M M., 513
Q. M., 550
S. U. M Abbas, 506
Husband, Jeanie, 176
Joseph, 218
J. H., 241
Hussain, A., 527
Hussey, D. M , 564
Hutchens, H. J., 65, 72
Hutchins, W. N., 328
Hutchinson, A., 45, 50, 63
A. C. W., 182
A. H., 337
F. E., 213
G. T., 198
H. J., 249
H. P., 33
Hutchison, R., 172
Hutt, F. B., 368
Hutton, A. J., 285
G. C., 269
M., 398, 406
W. K., 280
Huxley, J. S., 127, 194
Hydar, N. J. B., 503
Hydari, A., 540

Hyde, D , 314
Hyder, L. K., 505
Hynd, A., 294
Hynes, J., 320
Hyslop, J., 283

Ibbotson, F., 219
Ibbs, T L., 26
Ibn-i-Hasan, 550
Ibrahim, S., 550
Ibrahim, Sd. Md. Ibn , 509
Icely, H. E. M , 191
Iles, A. E., 36
Iles, G. D , 85
G E., 145
Illing, V. C., 131
Immelman, M. N S., 473
Imrie, C. G , 219
Inagaki, M., 432
Inamdar, R S., 513
Inamullah-Khan, 505
Inayat Ali Khan, 535
Ince, E. L., 93
Inchley, O., 126
Inebnit, J. P., 82
Ing, H. R., 191
Inge, W. R., 43
Ingham, A. E., 52
Inglis, C. E., 46, 50
J. K. H., 456
W. K , 444
Ingold, C. K., 81
Mrs. C. K , 81
Ingraham, M. K , 328
Ingram, E. G., 125
J. W., 405
W. W., 442
Ingvaldsen, T., 373
Inkster, R. G., 81
Inman, A. C., 172, 174
H. J., 146
Innes, D. E. I., 293
H. A , 403
H. McL., 52
Inskip, Sir T., 151
Iqbal, Md., 553
Iqbal Hussain, Q. Sd., 546
Irons, E. J., 136
Irvine, Sir J. C., 292
Irving, G. T., 450
Irwin, E. A., 355
L., 430
W. A., 402
Isaac, P., 539
Isaacs, H. D., 366
J., 125
R. G., 240
Isaacson, L., 473
Isemonger, N. E., 146
Isherwood, R., 94
Ismail, M , 553
Israel, S U., 527
Iveagh, Earl of, 304
Ivens, M. H. F., 96
Iyengar, N. N., 542
Iyer, A. R. P., 547
K. A. S., 535
K. S. S., 547
L. V., 540
V. S., 542

Jack, A. A., 264
D , 294
D. T., 283
R., 457
T., 224
W. R., 284
Jackman, W., 403
W. A., 37
Jackson, A., 387
C., 333
C N., 215
F. S , 362
G. E., 403
H. G., 138
J. L., 330
J. T., 305
S. F., 177
V. H., 557
V. W., 368
Jacob, E. F , 198
K K , 565
Jacobs, A. C., 197, 200
J., 497
Jacques, A., 384
Jaggard, W. R , 116
Jagose, J. R., 516
Jain, H. B., 548
L. C., 507
R. S., 514
James, A., 274
A. A., 413
C G., 126
F. W., 438
H. A., 190, 200
H. C., 81
Jameson, A. H., 125
Jamieson, C V., 332
E. B., 269
H. C., 332
J. K., 80, 81
J. N., 472
M., 566
R. E., 356, 357
Jamison, E. M., 202
Janaki Rao, K., 539
Jane, L. C., 230
Jang, M. U. S., 508
Janis, A. J., 69
Janisch, E. P., 492
Janse, A. J., 485
Jansz, P. L., 564
Janvier, C. A. R., 508
Jardine, F. E., 269, 275
W. D. D., 80
Jarry, A., 377
Jasmin, A., 384
H., 375
L.-D., 375
Jathar, G. B., 518
Jeaffreson, J. W., 118
Jeanneret, F. C. A., 400
Jeannotte, H. J., 375
Jeans, F., 96
Jebb, E. M., 24
G. E. M., 66, 76, 77
Jefcoat, C., 301
Jefferson, G., 175
Jeffery, G. B , 119
R. L., 328
R. W., 197, 199

Jeffreys, H., 52
Jehu, T. J., 271
Jembunathan, S., 559
Jemmett, D. M., 386
Jenkin, 225
C. F., 192, 197
N., 368
N. C., 414
R. R., 160
R. W., 179
T. C., 229
T. J., 229
W. E. C., 196
Jenkins, C., 126, 152
E. D. T., 229
H. G., 300
H. J. S., 230
J., 218, 225, 233
J. R. W., 229
J. T., 93, 230
W A., 504, 528
Jenkinson, A. J., 197
H., 126
Jenks, E., 168
Jenner, H., 243
Jennings, E. S., 34
W. I., 83
Jensen, A. E., 492
Jepps, M. W., 284
Jepson, D., 179
Jeremy, H. R., 160
Jervis, J. G., 339
J. J., 84
W. W., 34
Jessop, H. T., 119
Jevons, F. B., 69
Jewesbury, R. C., 156
Jewett, E. W., 144
Jha, A., 507
A. N., 507
G., 507
L. S., 547
R. K., 557
Jhaveri, T. N., 518
Joachim, H. H., 193, 200
Joag, V. K., 518
Jobin, A., 351
Joel, A. H., 394
Jog, T. B., 547
Johannson, A., 178
John, C., 510
E. J., 540
T. D., 509
W. J., 135
Johnson, A. H., 197, 201
A. M., 480
A. N., 560
B., 247
E. W., 53
F. C., 147
F. M. G., 355
M. C., 26
R. C., 300
S. K., 176
T., 316
W., 90, 96
W. E., 45, 49, 50
W. S., 479
Johnston, A. B., 539
A. J., 412

Johnston, C McK., 269
H. M., 72
J., 304, 306
J. A., 448
J. P., 316
K. I., 170, 174
K. P., 387
R. M'K., 269
S., 405
S. R., 344
T. B., 154, 164
T. H., 426
Johnstone, H., 150
J., 93
J. H. L., 343
R. J., 298, 300
R. W., 273
Joll, C. A., 162
Jolley, A. C., 170
Jolliffe, A. E., 126
J. E. A., 202
R. O., 386
Jolly, J. C., 178
N. W., 426
W. A., 473
Jolowicz, H. F., 168, 195
Joly, J., 304, 305, 306
Joncas, P., 350
Jones, A., 137
Mrs. A. C. A., 367
A. M., 235
A. Mason, 238
A. P., 80
B. M., B.Sc., 182
B. M., 46, 49
C. C., 382
C. S., 90
Daniel, 119, 121, 123
D. C., M.A., 94
D. C., Ph.D., 135
D. R., 229
Emrys., 226
Eric, 177
E. G., 91
E. J., 234, 236
E. Lloyd-, 46
E. N., 225
E. O., 179
E. T., 229, 233
E. Taylor, 283
F. B., 359
F. H. M., 343
G., 156
Gwenan, 229
G. B., 233
G. M., 399
G. N., 240
H. I., 233
H. S., 193, 197
H. T., 80
I., 240
John, 130
Jos., 225
J. D., 218
J. H., 129
J. H., Leeds, 81
J. Ll., 315
J. M., 225, 233
J. T., 331
J. W., 93
Jones, L. R., 139
M. G., Wales, 229
M. G., 54
O. T., 178
P. D., 447
P. M., 236
Sir R., 96
R. A., 125
R. F., 367
S., 119
S. G., 229
T. C., 509
T. E., 438
T. G., 230
T. G. H., 437
W. A., M.D., 388
W. G., 92
W. H. S., 51
W. J., D.Sc., 235
W. Jenkyn, 230
W. M., 241
W. N., 147
W. R. D., 236
W. W., 405
Jopson, N. B., 127
Jordan, E. E., 338
H. P., 518
J. J., 472
W. E., 53
W. G., 388
Jorgensen, Miss O., 77
Joseph, C. G., 53
H. P., 566
H. W. B., 193, 200
Josephson, H. B., 394
Joshi, A. D., 507
C. N., 550
C. V., 516
K. K., 518
M. K., 518
M. M., 517
R. M., 517
Jost, A. C. 344
Joubert, D. B., 488
J. M., 488
Joyce, T. A., 139
T. C., 218
Joynt, J. W., 453
T. A., 270
Judd, W., 448
Juler, F. A., 160
Julien, O., 384
Jull, R. M. H., 450
Junnarkar, P. B., 527
S. B., 518
Jutras, L., 376
Jwala Prasad, 547

Ka, U., 560
Kacker, P. C., 534
Kader, Abd-el, 145
Kadir, M. A., 557
Kaji, H. L., 517
Kakati, B. K., 525
Kalapesi, A. S., 517
Kale, V. D., 547
V. G., 513, 518
Kali Pershad, 535
Kamp, J., 483
Kanetkar, G. G., 547
Kanga, D. D., 516
Kanhere, S. G., 146
Kanitkar, S. R., 518
K. R., 518
Kanjilal, J. N., 524
R., 556
Kann, J. H. C., 563
Kapadia, D. D., 518
Kapitza, P., 45, 53
Kar, T., 523
Karagheusian, V. N. T., 431
Karkarey, S. B., 547
Karmarkar, R. D., 518
Kartan Singh, 546
Karunaratne, W. A. E., 566
Karve, D. G., 518
R. D., 517
Karwal, G. D., 507
Kashyap, S. R., 553, 556
Kastner, L. E., 177
Kathaley, D. W., 546
Katju, K. N., 514
Kauffmann, O. J., 26
Kaufmann, J., 359
Kaul, B. N., 559
K. N., 532
Kay, D. M., 293
F. W., 91
S. A., 270
T., 285
Kayasth, R. N., 547
Kaye, M., 243
Kay-Mouat, J. R., 567
Kean, C. I., 293
Keane, C. A., 169, 173
J. H., 190, 202
Kearton, W. J., 94
Keatinge, M. W., 191
Kebby, C. H., 132
Keeble, Sir F. W., 191, 199
Keeley, T. C., 201
Keen, B. A., 169
Keenan, C. B., 360
Keene, H. B., 26
Mrs. M. F. L., 154
Keenleyside, H. Ll., 338
Keeping, E. S., 240
Keet, B. B., 489
Keffler, L. P. G., 91
Keighley, T., 177, 179
Keightley, B., 513
B., Barr.-at-Law, 534
Keilin, D., 43
Keir, D. L., 201
Keirstead, E. M., 364
Keith, A. B., 273
C., 203
K. E., 97
Kelkar, K. H., 518
Kelkar, G. H., 518
V. M., 546
Kellas, J., 524
Kellock, J., 517
Kellog, C. E., 356
Kelly, A. J., 358
D., 434
E. C. W., 431
H. C., 82
R. E., 96

Kelly, S. A., 91
W., 567
W., LL.D., 263
Kelso, J. A., 333
Kemp, H. R., 403
Kempson, L. C., 147
Kendall, O. D., 34
Kendrew, W. G., 192, 202
Kennan, R. H., 96
Kennedy, A. M., 237
A. R. S., 271
D., 264
H. A. A., 271
H. G. S., 558
M. D., 54
R., M.Sc., 318
W., 304, 306
W. P. McC., 401
Kenner, J., 441
Kennett, R. H., 47, 51
Kennon, R., 96
Kenny, C. S., 48
Kenrick, F. B., 398
Kent, A., 281
H. A., 342
Kenty, C., 343
Kenwood, H. R., 123
Kenyon, Lord, 225, 232
J., 169
Keown, J. E., 282
Ker, C., 279
Kerman, F., 248
Kermode, H. S., 92
Kernot, W. N., 431
Kerr, C., 295
C. A., 293
D., 273
F. H. W., 558
H., 85
H., M.D., 72
J. G., 283
J. M. M., 285
P. H., 211
W., 289
W. A. R., 331
W. H., 271
Kerrin, J. C., 266
Kerry, W., 431
Kershaw, J. W., 218
J., 181
Kestell, J. D., 479
Kettle, E. H., 238
Kettlewell, N. H., 37
Kewalramani, G. G., 517
Keyes, S. J., 388
Keynes, J. M., 50
Keys, D. A., 356
Khalil, Md. B. A., 534
Khan, A. S., 557
F. A., 528
S. A., 507
Khanna, R. R., 533
Khanotkar, V. R., 516
Khare, J. L., 547
Khérgamvala, J. S., 516
Khosla, R. P., 558
Khub Ram, 532
Kibble, W. F., 538
Kichloo, A., 556
Kidd, A. S., 483
Kidd, B. J., 190, 202
P., 158
Kieley, P., 317
Kierstead, W. C., 382
Kihlbom, A. M., 120
Killick, A. H., 35
Kilroe, F. C., 480
Kilvington, B., 433
Kindness, J., 264
King, A., 386
C. A., 513
C. S., 448
D. S., 307
E., 218
E. B., 193
H., 92
H. M., 339
H. S., 342
J. T., 400
L. V., 356
P. E., 86
R., 243
R. A., 510
R. W., 233
T., 434
W., 229
W. B. R., 44, 49, 50, 52, 54
W. N., 82
Mrs. W. O. R., 83
W. W., 220
Kingsley, M., 559
Kingston, G. F., 403, 411
H. R., 414
S. H., 36
Kingswood, R. C., 414
Kinkead, R. J., 320
Kinloch, J. P., 266
Kinvig, R. H., 25
Kipping, F. S., 246
Kipps, E. J., 24
Kirby, P. R., 492
Kirk, F. S., 220
H. B., 464
K. E., 201
L. E., 394
S. R., 297
Kirkaldy, A. W., 246
J. W., 202, 203
Mrs., 247
Kirkhouse, M., 71
Kirkpatrick, A. F., 53
F. A., 46
F. H., 364
H. J. R., 292
T. P. C., 307
Kirkwood, M. M., 400
W. A., 399
Kirwood, A. E. M., 425
Kishan Chand, 550
Kishore, K., 507
Kitchin, G., 271
H. D., 366
Kitson, C. H., 171, 306
Kitson-Clark, G. S. R., 52
Kitto, H. D. F., 281
Kittredge, R. E. L., 401, 411
Klein, N. S., 497
Kleven, V. E., 394
Klimpke, P., 383
Klinck, L. S., 337
Klotz, O., 404
Klugh, A. B., 386
H., 132
Knaggs, Miss, 149
Knapman, H., 250, 251
Knapp, F. M., 338
Knaster, R. M. J., 504
Kneale, J. C., 26
Knight, B. H., 123
C. M., 124
C. R., 462, 463
E. A., 175
M., 91
Knoop, D., 217
Knott, H. C., 53
W. M., 27
Knowles, F. K., 219?
L., 140
Knox, F. A., 388
J., 281
R. S., 400
Knox-Shaw, H., 191
T., 52
Koch, W. V. M., 569
Kolhatker, G. B., 518
Kolkhorst, G. A., 194
Kolni-Balozky, J., 83
Kooy, F. H., 473
Kops, C. W., 492
Kotze, Sir R., 491
Krall, H., 509
Kribs, H. G., 508
Kriel, D. J., 488
Krige, A. V., 489
J. D. A., 491
Krishna Shastri, 535
Krishnan, S. R., 557
Krishnappa, B., 543
Krishnaswanu, K. R., 563
Kritzinger, M. S. B., 485
Kuehner, A. L., 336
Kulkarni-Jatkar, S. K., 563
Kunhiraman, C., 540
Küpferburger, W., 492
Kuppuswami Sastri, S., 538
Kureishy, A. M., 506
Kurth, E. E., 448
Kuschke, G. H.-J., 485
Kyle, W. M., 438
Kynoch, J. A. C., 295

Lacey, A., 401
H. B., 169
Lachance, A., 350
Lachhmi-Dhar, 532
Lack, H. L., 157
L. A. H., 559
V. J., 27
Lackland, H. M., 92
Lacroix, J. B., 351
Lacy, F. St. J., 318
Mrs., 54
Ladler, E. M., 480
Laffan, R. G. D., 51
Lafontaine, Hon. E., 375
Lagacé, J. B., 374
Lagu, H. L., 517
R. K., 518
Lai Hsi Chi, 568

Laidlaw, R. E., 402
W. A., 450, 451
W. C., 332
Laing, A. M., 73
A. T., 399
B. M., 219
D. G., 491
E. V., 264
M. E., 34
Laird, A. L., 401
D. G., 339
H. C., 386
J., 265
S., 355
T. P., 269
Laistner, M. L. W., 129
Lait, J., 307
Lajeunesse, J. A., 384
Lake, P., 44
Lakhani, J. V., 517
Lakin, C. E., 158, 160
Lakshman-Sarup, 553
Lakshminarayanan, C., 538
Lal, M., 553
Ragunandan, 534
R. B., 532
S. N., 513
Lala Sain Das, 555
Shib Narain, 524
Laliberte, M., 349
Lamarche, A., 375
Lamb, A. S., 355
C. G., 461
E. H., 105, 135
F. W. J. A., 179
F. W. M., 27
H., 44
H. M., 362
S. E., 462
Lambert, B., 191, 199
E. T., 355
H., 557
H. M., 517
Lambie, C. G., 274
Lambley, K., 68, 69
Lamond, R., 284
Lamont, J. A., 414
Lamoureux, R., 384
Lancashire, G. H., 180
Lancaster, T. L., 462
Lanctot, H., 377
Landau, J. L., 492
Lander, P. E., 555
Landon, F., 413, 414
J. W., 46, 48
P. A., 201
Lane, C. R., 246
Sir W. A., 172
W. B., 402
Lang, A. E., 401
B. T., 172
Rt. Hon. C. G., 197
J., 456
R. J., 332
W. H., 176
Lang Brown, A., 481
Langdon, S., 195
Langevin, S., 376
Langley, G. H., 528
G. J., 179
Langley, J. N., 53
Langlois, A., 351
Langmead, F. S., 158
Langton, J. L., 183
Lapage, G., 180
Lapsley, G. T., 53
Lapworth, A., 176
Larard, C. E., 170
Larchet, J. F., 315
Lardner, Mrs., 473
Larg, D. J., 218
Larkin, P., 320
Larkins, H. M., 442
Larmor, Sir J., 44, 52
Larose, P., 350
Larsen, T., 338
Laski, H. J., 140
Lassère, H., 401
Last, H. M., 201
Latham, A. G., 77
G. W., 355
L. S., 433
O., 440, 444
P. M. S., 47
Latif, A. M. M., 557
Latreille, E., 374
Latta, Prof., 288
Lattey, R. T., 194
Latulipe, E., 384
Laughton, N. B., 414
Laumain, Mlle., 244
Laumonier, P., 149
Laurence, A. J., 377
R. V., 53
Laurenza, V., 498
Laureys, H., 377
Laurie, A. P., 275
R. D., 230
Laver, W. A., 432, 436
Laverock, F., 92
Lavery, M. B., 298
Lavington, F., 43, 49
Lavrin, J., 247
Law, W. J., 221
Lawlor, F. E., 344
H. J., 306
Lawrence, T. E., 197
Lawrie, J. G., 492
Laws, S. C., 173
Lawson, Sir A., 160
A. A., D.Sc., 440
F. H., 198, 199
G., 292
J. C., 51
R., 456
R. W., 219
Lawton, F. D. H. B., 433
Laxton, F. C., 246
Layton, T. B., 157
Lazarus, S. C., 436
Lazerte, M. E., 331
Le Beau, G. S., 135
Le Bel, A., 349
Le Goc, M. J., 565
Le May, H., 492
Le Mesurier, C. S., 358
Le Pan, A. d'O., 397
Le Roux, M., 489
J. J., 491
T., 472
Le Roux, T. H., 485
Le Sœuf, E. A., 451
Le Touzel, J. R., 415
Lea, A. M., 426
F. C., 218
J., 101
K. M., 202
Leach, W., 23
Leacock, S., 356
Leader, H., 220
Leake, G., 255
H. M., 417
Learmonth, J. R., 285
Leathes, J. B., 219
Lebeau, A., 539
Lebel, H., 376
Leblanc, R., 384
Leckie, A. J., 451
Leclerc, A., 384
Leconte, F., 236
Lecours, J. E. W., 376
Ledingham, J. C. G., 155
Leduc, A., 375
J., 376
Lee, C. H., 368
E. J., 65
H., 84
J. R., 53
M. L., 251
R. W., 195, 197
S. C., 368
S. G., 199
Leech, E. B., 181
J. W., 74
Lees, A. H., 33
C. H., 136
D., 275
G. C., 282
K. A., 157
M. E., 233
R. M., 282
S., 46, 52
Lees-Smith, H. B., 140
Leeson, G. E., 145
Leet, F. L., 314
Lefebvre de Bellefeuille, G., 376
Lefroy, H. M., 132
Leffler, W., 473
Legault, R., 384
Léger, A., 376
Legg, L. G. W., 200
T. P., 162
Legge, J. H., 85
Sir T., 182
Legouis, E., 193
Legros, R. P., 147
Lehfeldt, R. A., 492
Lehmann, A. L. F., 330
J. E., 370
Leicester, Lt.-Col., 523
Leigh, C., 539
C. W. E., 175
P. T., 85
Leigh-Sharpe, W. H., 155, 172
Leighton, H. B., 217
Leiper, R. T., 156
Leishman, A., 369
Sir W., 52
Leitch, D. B., 332

Leitch, G. C., 76
J. M., 288
Lelean, P. S., 273
Lemberger, J., 299
Lemieux, Hon. R., 376
Lemmon, R. B., 431
Lemon, E., 272
Lennard, R V., 196, 201
Lennard-Jones, J. E., 35
Lennie, A. B., 271
Lennox, D., 295
W. J., 37
Lenox-Conyngham, Sir G. P., 44, 53
Lentz, E. E., 264
Leonard, A. G. G., 316
G. H., 34
Leopold, R. P., 377
Lépini, E., 375
Leppan, H. D., 485, 487
Le Roy, G., 496
Lesage, A., 376
Lesieur, R., 375
Leslie, R , 472
Lessard, A., 351
Lessel, J. F., 343
Letondel, A., 375
Letourneau, R , 384
Letson, H. F. G., 337
Lett, H., 162
Léveillé, A., 375
Leveson, P. K., 54
Levesque, R., 349
Levett, A. E., 124, 126
M. J., 283
Levi, T. A., 230
Levin, J. J., 493
Levine, I., 244
Levy, H., 132
Lévy-Bruhl, L., 149
Levyns, Mrs. J. E. P., 471
Lewin, C. T , 281
Lewis, A. J., 426
C., 237
C. J., 26, 27
C. S., 199
D. S., 359
E. A., 229, 230
E. C., 162
F. C., 98
F. J., 330
G. A., 233
H., 241
H. G., 235
H. P., 218
J. C., 433
J. T., 300
M. M., LL.B., 34
M. M., 246
N. B., 218
Sir N. E., 448
P. T., 211
S., 241
T. E., 230
Sir T., 158
T., 225
T., M Sc., 230
Timothy, 230
W. C. McC., 91, 98
W. H., 243
Lewis, W. J., M.A.Camb., 45, 60
W. J , M.A.Ox., 200
W. J , B.L., S S.C., 273
W. S., 243
Lewitt, E. H., 131
Ley, H. G , 193
Leys, K. K. M., 201
Leyton, O. F F., 160
Lias, W. J., 219
Lichtenstein, C., 356
Lickley, J. D., 71
Liddell, E. G. T., 194, 201
M. F., 25
Liddy, R B , 380
Lidwill, M. C., 443
Ligertwood, L. M., 273
Light, K. E., 150
Lightfoot, H. le B., 215
N. M. H , 219
R. H., 198, 200
Lighthall, A., 337
Lillie, J. A., 273
Lillis, P. F., 524
Lim, Eng Hac, 569
Lind, E. M., 217
Lindemann, F. A., 193, 198, 201
Lindon, E. H. L , 458
Lindsay, A. D., 189, 197
B., 255
E. C., 162
J , 127
J. C , 415
L., 359
W. M., 293
W. S., 393
Line, J., 49
J., Canada, 380
Linell, E. A., 397
Linfoot, G. E., 219
Linford, H. M., 179
Ling, A. R., 23
A. W., 33
G. H., 326, 394
Lipsett, S. G., 373
Lipson, E., 194
Lister, J., 171
Sir W. T., 160
Liston, M. F., 275
Lithgow, J. D., 274
Little, A. G., 179
A. T., 413
E. G. G., 101, 156
E. M., 444
H. M., 359
H. S., 415
Littlejohn, E. S., 171
H., 273
Littlewood, J. E., 44, 53
R. W., 540
Liveing, G. D., 63
Livens, G. H., 236
Livingstone, A., 163
R. W., 298
Llewellyn, Sir D. R., 235
E. C., 236
G. R., 33
Lloyd, C. M., 140
C. P. W., 508
Lloyd, E. A., 339
F. E., 354
J. E., 233
J. H., M A., 23
J. H., M.Sc., 237
J. M., 236
M. D. I., 178
Lloyd-Evans, B. J., 117
Lloyd-James, A., 119, 123
Llubera, I. G., 300
Loader, F. M., 254
Lobb, A , 400
Lobban, C. H., 125
J. H., 137
Lobel, E., 191
Lobley, A. G , 179
Lochhead, J., 77
Lock, C. N. H., 49
W., 196, 197
Lockhart, A. R. B , 355
F. A. L., 362
R. D., 263
Lockyer, W. J. S., 243
Lodewyckx, A., 431, 432
Lodge, E. C., 151
Sir O., 27
Sir R., 279
R. C., 367
S. D., 84
Loeser, H. A., 493
Loewe, H. M. J., 195, 198
Logan, H. B., 36
H. T., 337
J. D., 328
J. F., 386
J. W., 342
Logeman, W. H., 479
Loiseau, J., 53
Lokanathan, P. S., 537
Lomas, W. M. A., 69
Lomer, G. R., 354
Londonderry, Marquess of, 298
Loney, S. L., 101
Long, F. A., 83
J. J., 73
J. N., 131
M. H., 331
Lonjaret, J., 218
Looker, E. E., 150
Lopes, Sir H. Y. P., 243
Lord, A. R., 484
L., 196
Lorimer, H., 202
W. L., 293
Lorrain, L. P. H., 375
Lothian, J. M., 393
Lothrop, A. P., 390
Lotinga, C., 73
Loudon, T. R., 399
W. J., 402
Lougheed, M. S , 370
Loughridge, J. S., 300
Love, A. E. H., 194
E. F. J., 432
W. H., 443
Loveday, G. E., 181
T., 32
Lovell, A. J., 395
H. T., 442
R., 182

Lovett, Sir H. V., 193
Low, A., 263
G. C., 163
J. W., 35
R. C., 273
V. W., 162
W., 292
Lowe, A. L., 25
C. W., 366
Esther, 220
E. A., 193
F. H., 170
Lowe, Bingham, and Matthews, 568
Lownds, L., 171
Lowry, C. G., 300
G. C., 130
H. C., 300
H. V., 183
T. M., 45
W. H., 404
Lowson, J. P., 437
W., 81, 85
Lubbock, A., 50
R., 51
Lucas, A., 27
A. H. S., 448
Sir C. P., 197
E. D., 555
F. L., 50
G. H. W., 405
Luce, A. A., 304, 305
G. H., 559
Luckhoff, J., 473
Ludlam, E. B., 270
Ludowici, E., 444
Luker, S. G., 156
Lumsden, T. A., 25
Luney, F. W., 414
Lunnon, R. G., 77
Lusby, S. G., 438
Lush, K. A., 434
Lyall, G. L., 97
Lyde, L. W., 117, 118
Lyle, H. W., 160, 165
R. P. R., 72
Lynch, G. R., 156
Lynn, M. J., 299
Lyon, D. M., 275
P. C., 200
T. H., 42, 48, 50, 52
Lyons, H. W., 510
J. N., 344
R. J., 442
Lys, F. J., 190, 201
Lyster, R. A., 156, 157
Lyttel, E. S., 254

Maas, O., 355
Mabbott, J. D., 201
MacAfee, C. H. G., 300
Macalister, G. H., 566
R. A. S., 314
MacAlister, Sir D., 52, 280
M'Alister, W., 274
Macallum, A. B., 354, 413
Macalpine, J. B., 182
McAlpine, D., 159
E. G., 542
McAndrew, W. J., 400
M'Ardle, J. S., 315
MacArthur, C., 370
J. W., 398
M'Arthur, D. A., 387
N., 283
Macaulay, W. H., 50
McAulay, A., 448
A. L., 448
McBain, J. W., 34
Macbeath, A., 288, 300
Macbeth, A. K., 68
McBrady, R., 399
MacBride, E. W., 132
M'Broom, H. L., 289
MacBride, E. W., 132
M'Bryan, F., 320
MacCaffrey, Msgr., 312
M'Callien, W. J., 282
M'Callister, W. J., 299
MacCallum, E. C. D., 388
H. R., 387
J. M., 404
M. L., 443
M. W., 440, 441
P., 433
McCallum, S. P., 194
R., 464
R. B., 200
R. F. G., 264
M'Callum, E. D., 76, 77
G., 284
McCalman, D. H., 369
McCandlish, D., 86
McCann, P. J., 190, 202
J. E., 525
McCarmick, A., 81
MacCarthy, C. P., 317
McCarthy, J. B., 357
O. F., 319
McCartney, J. E., 279
M'Caughey, E. L., 299
McCleland, N. P. K. J. O'N., 51
McClelland, A. W., 357
E. W., 124
M'Clelland, W. W., 279, 293
MacClement, T. W., 386
McClung, R. K., 367
M'Cluskie, J. A. W., 284
McCombie, H., 43, 50
McConnell, A. A., 307
Mme. B. S., 387
McCorkell, E. J., 403, 406
MacCormac, H., 156, 158
McCowan, W. P., 369
McCracken, G., 458
M'Cracken, W. J., 299
McCrimmon, A. L., 364
MacCrone, I. D., 492
McCulla, J., 488
McCulloch, A., 182
McCullough, N., 471
W. H. M., 302
MacCurdy, J. T., 47
McCurdy, L. R., 358
M. F., 342
Mrs. W. F., 347
MacDermot, H. E., 354
MacDermott, L., 556
Macdonald, A., 391
Macdonald, A. D., 272
A. E., 367
A. L., 343
D. A., 369
E., 69
H. M., 263, 265
J. F., 390, 400
J. F., India, 524
J. S., 93
P. A., 344
R. A., 92
MacDonald, D. J., 391
E. P., 414
H. J., 391
J., 264
J., Canada, 331
J. A., 393
J. H., D.D., 328
J. H., M.B., 284
V. C., 343
W. L., 338
McDonald, C. G., 444
E. F., 443
G. W., 430
H. K., 344
R. St. J., 359
S., 66, 72
Macdonell, A. A., 195, 197
Macdonnell, J. M., 211
M. L, 386
P. M., 388
MacDonnell, U. N., 366
Mrs. U. N., 367
Macdougall, A. J., 289
MacDougall, R. S., 269
McDougall, D. G., 448
E., 539
G. W., 358
J. G., 344
McDowall, R. J. S, 126
Mace, C. A., 294
McEachern, J. D., 370
MacEachran, J. M., 331
D., 362
McElderry, R. K., 299
McElroy, R. McN., 192
MacEnri, S. P., 320
Macewen, J. A. C., 285
McEwen, J. B., 171, 174
Macey, T. S., 35
McFadden, E. G., 368
McFadyean, Sir J., 172, 173
MacFall, J. E. W., 95
MacFarland, Sir J. H, 430
MacFarlane, W. D., 342
Macfarlane, A., 274
W. S., 270
McFarlane, J., 264
Macfarlane-Grieve, A. A., 69
Macfie, J. W. S., 94
MacGibbon, D. A., 332
McGibbon, J., 493
R. T., 366
Macgilchrist, A. C., 523
MacGill, E. I., 180
McGill, G., 456
M'Gilligan, P., 312
Macgillivray, J., 387
MacGillivray, A., 292, 295
D., 280

MacGillivray, E., 282
M'Gillivray, A. M., 295
McGilvray, C. D., 406
M'Glynn, P., 281
McGookin, A., 91
McGougan, A. G., 396
McGoun, A. F., 332
McGowan, A. D., 384
McGrath, F. A., 319
McGreer, A. H., 336
Macgregor, A. R., 274
D. C., 197
D. H., 194, 197
J. A., 414
L., 77
W. R., 492
MacGregor, D. G., 380
R. R., 388
McGregor, A., 404
J., 80
J. G., 24
W. R., 462
M'Gregor, A. N., 285
Macgregor-Morris, J. T., 135
McGunness, F. G., 370
McHenry, J. J., 321
Machray, J. A., 366
McIlroy, A. L., 159
M'Ilwaine, J. E., 300
McIlwraith, K. C., 404
T. F., 400
McInerny, H. O., 382
K. M. M., 431
MacInnes, C. M., 34
I., 338
W. A., 178
Macintosh, J., 462
McIntosh, D., 342
D. S., 343
J., 160
M., 413
W. G., 399
W. R., 414
Macintyre, R. G., 445
McIntyre, D. F., 370
E. A., 406
J. L., 265
M. W. D., 445
R. K., 391
M'Intyre, D., 285
M., 285
MacIver, R. M., 403
McIvor, N. K., 370
Mack, F. G., 344
E. G., 565
Mackae, E. M., 266
Mackay, D. S., 369
F. H., 359
H., 369
H. J. H., 168
H. M., 357
I. A., 356
I. G., 444
J. Y., 297
R. W. G., 444
S. G., 441
W. M., 293
MacKay, A. L. G., 425
C. A., 394
D. C., 391
MacKay, G. J., 387
J., 371
McKay, G., 464
M'Keag, H. T. A., 301
McKechnie, R. E., 337
M'Kechnie, W. S., 284
McKee, S. H., 359
MacKeith, M. H., 195, 199
MacKellar, D. J., 289
McKellar, H. S., 400
Macken, Mrs, 314
McKenna, L., 391
M'Kenna, O., 301
MacKenna, R. W., 95
McKenny, C. W., 569
McKenty, F. E., 360
J., 370
Mackenzie, A. H., 489
A. J., 538
A. S., 322, 342
D. W., 360
G. I., 272
H., 464
H. M., 555
J., 288
J. E., 270, 277
L. M., 480
M. A., 402
M. R., 270
N. F., 194
W. K. S., 443
W. T., 294
MacKenzie, C. J., 394
D. J., 344
D. S., 333
K. A., 344
N., 397
McKenzie, E. J., 393
J., 517
M'Kenzie, A., 293
M'Keown, A., 91
McKergow, C. M., 358
M'Kerracher, D., 289
McKerron, G. G., 484
R. G., 266
Mackersie, W. G., 370
McKibben, P. S., 413
Mackie, A., 441
J. D., 293
M. D., 118, 147
T. J., 274
W. S., 472
McKie, P. V., 149
M'Kie, W., 294
McKiel, H. W., 380
McKilligan, W. C., 368
Mackinder, Sir H. J., 142, 250
Mackinnon, J., 270
W. G., 264
MacKinnon, D. L., 127
M'Kinnon, F. L., 369
Mackintosh, A. B., 542
A. W., 263, 266
C., 273, 276
H. R., 271
J., Bombay, 517
J., LL.D., 272
J., N.D.A., 252
R., 180
W. A., 387
MacKinven, A. D., 282
McKisack, M., 202
Macklin, C. C., 413
E. D., 425
M. T., 413
McKnight, R. A., 93
McLachlan, A. R., 474
D. G. S., 274
H., 176
McLagan, W., 450
Maclaren, N., 280
McLaren, E. J. R., 462
P. D., 343
M'Laren, I., 281
M'Lauchlin, F., 368
McLaughlin, J. F., 402
R. J., 405
Maclay, Lord, 280
McLay, W. S. W., 364
Maclean, Sir E. J., 238
N. J., 370
MacLean, A., 401
A. B., 284
H., 158
J. A., 366
N. B., 367
McLean, A. R. M., 355
Miss C. M., 236
I. S., 155
J., 517
N., 47, 48
R. C., 235
W., 232
Wm., 537
Maclellan, E. K., 344
MacLellan, A., 445
M'Lellan, A. N., 285
Maclennan, D. N., 404
R. D., 272
MacLennan, A., 284
J. C., 403
McLennan, E. I., 430
Macleod, D. B., 461
J. MacL. H., 156
R. H., 44
MacLeod, H. J., 331
J. J. R., 403
P. J., 448
McLeod, D., 464
H. J., 333
J. W., 84
M'Liesh, J., 301
M'Loughlin, E. P., 314
McLuckie, J., 440
Maclure, A. F., 434
MacMahon, P. S., 534
McMahon, R., 384
MacMechan, A., 342
Macmillan, E., 486
J. W., 404
W. M., 492
MacMillan, E., 402
J. W., 412
McMillan, C., 355
D., 472
E. M., 401
J. A., 80
J. C., 369
R., 80
W. H., 247

M'Millan, A., 281
MacMunn, N. E., 192
MacMurray, J., 197
McMurray, T. P., 96
McMurrich, J. P., 397
MacNab, J., 494
McNabb, H. H., 181
MacNair, P. M., 240
McNair, A. D., 49, 168
McNairn, W. H., 364
Macnamara, E. D., 159
McNaught, P., 97
Macnaughton, J., 410
Macnee, E. A., 547
M'Neil, A., 270
C., 273
McNeile, A. H., 52
M'Neile, A. H., 305
Macneill, M., 342, 343
MacNeill, J., 364
J., D.Litt., 314
J. G. S., 315
J. T., 406
McNeill, G., 415
W. E., 386
Mrs. W. E., 390
McNulty, T. F., 59
MacOwan, G., 293
Macphail, Sir A., 359
A. J., 386
J. R., 538
MacPhail, H. D., 72
MacPhee, E. D., 403
Macpherson, C., 171
J., 443
Sir J., 444
S., 105, 171
W. E., 399
MacPherson, H. P., 391
McPherson, H., 391
McQueen, J. D., 369, 370
M'Queen, R., 393
McQuiggin, H. G., 442
M'Quistan, D. B., 289
Macrae, F., 285
MacRae, D. A., 347
McRae, J. A., 386
M'Rae, D. F., 366
Macran, H. S., 304, 305, 306
MacRobert, T. M., 283
MacSweeney, P., 312
M'Sweeney, E. P., 318
McSwiney, B. A., 175, 179
MacTaggart, D. D., 359
McTaggart, H. A., 403
M'Taggart, A., 357
MacVicar, E., 297
McVicar, W. H., 299
M'Weeney, H. C., 315
M'Whan, J., 283
Macwhirter, R., 289
MacWilliam, J. A., 265
McWilliam, N., 150
Madan, Gopal, 547
Mader, V. O., 342
Madgin, W. M., 76
Madhava, K. B., 543
Madigan, C. T., 426
Madill, H. H., 398
Madin, W. T., 27
Madsen, J. P. V., 443
Magarcy, R. E., 426
Magennis, W., 312, 315
Magner, W., 404
Magnes, G. L., 497
Magrath, J. R., 190, 200
Maguire, F. A., 440
C. C. W., 27
Mahajan, C., 509
Mahajani, G. S., 518
Mahalanabis, P. C., 524
S. C., 524
Mahanty, C., 557
Mahboob Ali, 552
Maher, J. L., 524
Maheux, A., 349
G., 349
Mahibullah, S. Md., 525
Mahmood Ahmed Khan, 550
Mahon, R. B., 320
Mailhot, A., 374
Maillette, A., 384
Main, A., 281
Maingard, L. F., 492
Mainprise, C. W., 163
Mainstone, P. A., 233
Mair, A., 93
A. W., 270
Mrs., 139
Maisels, I., 494
Maitland-Smith, I. J., 24
Maitra, H., 523
J. N., 558
K. M., 553
S. K., 513
S. N., 525
Majduddin, Sd., 507
Majid, A., 558
Major, E. R., 42, 54
Majumdar, B., 521
B. M., 521
N. C., 560
R. C., 527
S. C., 523
T. N., 522
Makins, R. M., 197
Mal, R. R., 531
Malan, D. E., 486, 487
D. J., 486
G. H. T., 472
Malaviya, M. M., 512
Malcolm, A., 294
D. O., 197
H. P., 298
J., 457
L., 386
Malcolmson, G. E., 540
Male, G. P., 252
Malherbe, D. F., 479
D. F. du T., 485
E. G., 472
I. de V., 488
W. E., 489
W. M. R., 489
Malinowski, B., 139
Mallam, E., 195
Mallen, C. E., 75
Malleson, H. C., 163
Mallett, E., 131
Mallison, H. V., 244
Malthus, C., 448
Malvea, B. B., 508
Mammatt, W., 202
Manazir Ahsan-Gilani, 551
Manchester, R. C., 535
Mandal, B. B., 524
Mandelbrote, H., 472
Mandell, W., 230
Mander, L. A., 463
Mangham, S., 254
Manikkam, J. P., 538
Manley, H. F., 510
J. J., 199
Mann, A. H., 50
C. E. T., 33
E. E., 254
F. G., 43
H. C., 170
J. de L., 203
W. L., 370
Manning, B. L., 49
C. A. W., 200
J. W., 323
R. J., 393
Mansfield, W. C., 443
Manson, W., 406
Mansuri, Q. A., 505
Mapother, E., 159, 166
Marais, D. P., 473
J. S., 488
Marchand, A., 350
G., 384
Marchant, E. C., 199
E. W., 95
F. T., 119
Marcotte, F. X., 384
Mareshwar Prasad, 557
Marett, R. R., 190, 198
Margarita, M. M., 400
Margoliouth, D. S., 195, 200
H. M., 189, 256
Margolis, Prof., 497
Marien, A., 377
Marriwalla, D. T., 517
Mark, H., 509
T., 177
Marker, C. P., 331
Marks, G., 441
H. J., 447
J., 177
Marlow, F. W., 404
Marmorstein, A., 172
Marnoch, J., 266
Marois, A., 351
Marquard, D., 479
Marr, J. E., 44, 52
Marraine, F. G. G., 178
Marriage, H. J., 157
Marriott, F., 169
J. A. R., 201
Marrs, R., 564
Marsden, P. H., 95
R. W., 182
Marsh, C. H., 177
F. S., 53
J. E., 191, 199
R. W., 176
S., 171
Marshall, A., 559
A. J., 285

Marshall, A. McP., 457
C. R., 266
F., 444
F. H., 137
F. H. A., 42, 48
G., 158
H. S., 35
I. D., 431
J., 148
J. E., 90
L. H., 364
M. J., 337
Marston, H. R., 426
W., 85
Martel, G., 384
Martin, A., 270, 275
A. H., 442
A. M., 72
C., 305
C. A., 282
C. B., 367
C. F., 359
C. J., 132, 160, 166
E. C., 151
E. K., 162
F. H. E., 510
G. E., 274
H., 556
H. E. L., 76
H. W. S., 431, 434
J., 484
J. E., 358
L. C., B.Litt., 92
L. C., D.Sc., 132
W., 238
W. C., 413
W. H., 398
Martin Clark, Mrs., 243
Martineau, C. E., 23
Martinelli, N., 498
Martinius, M., 483
Marwick, T., 464
Marx, E., 473
Maskell, F. G., 464
Maslen, A. J., 170
Mason, A. D. A., 405
C. M., 177
E. H., 354, 359
F. C., 316
Grace H., 251
V. H., 273
W., 94
Massey, I. M., 147
Masson, D., 377
G. A., 273
J. I. O., 68
R., 376
R. P., 266
Mastermann, J. C., 198
Masters, H., 127
Matange, D. G., 548
Mather, J. H., 96
Mathers, A. T., 369
R. E., 344
R. P., 294
Matheson, D. C., 386
E. G., 337
J., 387
P. E., M.B.E., 200
Abp. S. P., 366
Mathew, K. C., 559
Mathews, H. B., 540
I. M., 219
S., 179
S. W., 337
Mathewson, G. D., 274
G. H., 359
Mathias, S. Y., 243
W. T., 91
Mathur, K. K., 513
L. P., 510
S. N., 534
Matravers, E. C., 39
Matsui, R., 442
Matthai, G., 553, 556
J., 537, 538
Matthew, E., 274
Matthews, A. W., 332
B. E., 167
E., 240
F. M., 447
G., 538
G. F. C., 27, 163
G. P., 440
H. A., 117
J. C., 96
J. R., 270
T. H., 356
W. R., 126, 152, 153
Mattick, A. T. R., 252
Mrs. E., 252
Mattinson, A. B., 94
Mattocks, R. H., 91
Maughan, J., 320
Maung Gyi, J. A., 559
Maurice, Sir F., 53
O., 374
Maw, A. J. G., 394
W. A., 357
Mawer, A., 92
Mawson, Sir D., 426
H., 94
S., 116
Maxted, D. R., 250
Maxwell, C. E., 306
L. A. I., 432
W. H., 493
W. R., 342
May, G. D., 69
H. R. D., 247
Mayall, R. H. D., 52
Maybury, B. C., 162
Mayes, F. J. A., 37
Maynard, Sir J., 553
J. G., 33
Mayoux, J., 92
Mayrand, R., 351
Mayrs, E. B. C., 300
Mazumdar, A. T., 513
S. N., 558
Mead, C. S., 425, 427
Meade, F. E., 289
Meakins, J. C., 359
Medley, D. J., 282
Meek, A., 71, 77
E. M., 79
T. J., 402
Meenan, J. N., 315
Meeson, A. E., 97
Megaw, J. W. D., 526
Meggitt, F. J., 559
Mehr Chand Sethi, 553
Mehra, H. R., 508, 513
Mehta, G. P., 513
K. C., 509
J. M., 516
M. K., 516
K. R., 513
Meikle, H. W., 105
Meiklejohn, G. I. W., 170
Melbourne, A. C. V., 437
Meldrum, A. N., 516
R., 43
Mellanby, A. L., 289
E., 220
J., 161
Melland, C. H., 181
G., 170
Mellish, H., 246
Melson, J. W., 404
Melville, E. L., 76
Miss F. H., 280
L. G., 425
Melvin, G. S., 387
Mennell, Z., 154
Menon, K. R., 538
V. K. N., 535, 540
Menzies, R. C., 33
Meras, E. A., 416
Mercer, C. H., 343
H. N., 183
J., 48
S. B., 411
S. P., 298
W., 275
Mercier, O. F., 377
Mercil, A., 350
Mere, G., 146
Meredith, H. O., 299, 302
Merrett, E. F., 180
W. H., 132
Merrill, B. W., 364
Merriman, P. J., 317
Merrylees, W. A., 432
Merton, T. R., 194, 197
Mesham, P., 481
Messac, R., 355
Meston, W., 538
Metcalfe, E. P., 543
O. K., 219
Metivier, H. V. M., 417
Mettam, R. W., 486, 495
Mewburn, F. H., 332
F. H. H., 333
Meyendorff, A., 140
Baron A. F., 127
Meyer, B., 355
Michael, J. H., 412
Michell, H., 364
J. H., 432
Michie, J. L., 437
Middlebrook, S., 77
Middleton, E. L., 266
G. S., 280
J. C., 285
M. J., 69
Miers, Sir H. A., 175, 199
Mignault, G. E., 377
L. D., 374
P. B., 358

Miles, A., 279
G. H., 140
Sir J. C., 199
W. H., 77
Mill, J., 270
Millar, J. H., 279
J. M., 333
T. W., 275
W. N., 400
Millard, R. J., 443
W. A., 80
W. G., 274
Miller, A., 510
A. D., 333
A. E., 284
B. A., 90
C. H., 85
C. V., 76
D. A., 273, 274
D. L., 462
E. M., 448
F. C., 254
F. R., 414
J., D.Sc., 289
J., M.D., 388
M. S., 91
N., 387
R. H., 158
S. N., 282
W., B.Sc., 289
W. A., 442
W. B. D., 280
W. G., 390
W. L., 398
Millhouse, E. J , 427
Milligan, G., 280, 281
Millin, D. M., 492
Milln, G. H. S., 295
Mills, A., 294
A. E., 443
E. H. F., 23
J. T., 47
R. C., 441
T. R., 293
W. H., 43, 49, 52
Milne, D., 555
E. A., 178
F. M., 294, 295
G., 80
J. B., 163
J. G., 97
J. J., 25
J. R., 272
R., 162
S., 92
W. P., 83
Milner, Lord, 215
D. F., 450
H. B., 132
L. G., 132
S. R., 219
W., 328
W. S., 401
Milner-Barry, A , 24
Milner-White, E., 50
Milnes, W. A., 289
Milroy, J. A., 299
T. H., 300
Milton, W. E. J., 229
Milward, A. H., 69
Minett, E. P., 569
Minns, E. H., 45, 51
Minocherhomji, N D , 518
Mirashi, V. V., 548
Mirsky, D. S., 127
Mirvish, L., 473
Misener, G., 331
Mishra, S. K., 546
Miskin, W., 143
Misra, C. P., 533
J. N., 535
K. L., 509
N., 557
P., 557
S. N., 507
Umesh, 508
Mitchell, A. A., 284
J., B.Sc., 320
J., 394
J. S., 283
R. B., 370
R. K. S., 270
S. T. R. S., 281
W., 265, 425
W T. B., 360
Mitchener, A. V., 368
P. H., 154, 162
Mitra, C. C., 532
J. N., 532
K., M.A., 523
K., 521
K. N., 525
M., 522
N. B., 508
S. K., 521
Mitter, J. H., 507
P. C , 520
Moberly, W. H., 31, 243
Winifred H., 190, 203
Mocatta, M., 427
Mockeridge, F. A., 240
Mockler, G. S., 76
Modi, J. P., 533
S. H., 516
Moe, G. G., 339
Moffat, A., 538
R. W., 367
Moffatt, C. F., 359
Moffet, S. O., 235
Mogg, A. O. D., 485
Moghe, M. A , 546
Mohamed-Sheif, 506
Mohan, S., 531
M , 555
Mohd Nainvr Rahman, 507
Mohn, G., 183
Moir, M. B., 450
P. J., 85
Molesworth, B. H., 438
E. H., 443
Moll, H. H., 84
Mollison, C. H., 433
E. L., 434
W. L., 41, 48
W. M., 157
Moloney, P. J , 404
Molony, Sir T. F., 304
Molteno, V. G., 474
Momber, R. M. S. T., 48, 51
Monahan, A. J., 82
Monash, Sir J., 430
Moncrieff, A., 246
Moncur, G., 289
Mone, T. V., 547
Monk, F. F., 532
Monkhouse, A. C , 85
O. E., 147
Monro, A. D., 464
T. K., 284
Monsarrat, K. W., 96
Montague, F. C., 118
Montefiore, C. G., 254
Montgomerie, R. F., 232
Montgomery, E. W., 369
J., 333
M., 192
R. J., 400
Montpetit, E., 374, 375, 376, 378
Moody, A. S., 457
A. W., 369
Mookerjee, H. C., 520
J. N., 520
K. P., 524
N., 525
S. D , 520
Mookerji, R. K., 534
Moon, A. J., 365
Mooney, G. W., 304, 305
Moore, A. B. J., 359
A. E., M.I.E.E., 183
A. E., M.B., B Ch., 319
A. H., 347
A. P. R , 427
B., 117
C. A., 33, 37
E. S., 401
F. C., 181
G. E., 45, 53
J. D., 440
J. H., 432
J. M., 271
R. A. L., 47
R. F., 160
S. A., 457
T. S., 150
Sir W. H., 432
W. W. T., 557
Moorhead, E. S., 369
T. G., 307
Moorhouse, V. H. K., 370
Moorrees, A., 488, 489
Moran, F. E., 306
H. M., 444
Morand, P., 224
Mordaunt, F. G., 264
Mordell, L. J., 178
More, J. A., 269
Morgan, A., 485
A. E., 218
A. M., 427
D. O., 230
G. T., 31
H., 230
J., 364
J. G., 243
J. H., 168
J. M'I., 295
L. T., 34
M. K., 82

Morgan, S. C., 331
W., 37
W. P., 237
Morin, L. J., 374
L. J. S., 376
V., 376
Morison, C G. T., 196, 198, 199, 201
J. B., 362
J. L., 76
J. M W., 174
M. J., 388
Sir T., 75
Morley, D. W., 568
E. J., 251
G. H., 31
J., 175
Moroni, Mme., 247
Morrah, D. MacG., 197
Morrell, J. H., 194
W. J., 456
Morris, A. E., 433
C. R., 197
D. V., 321
G. G., 48
H. C. S., 411
R., 225
R. O., 171
Morris-Jones, Sir J., 233
Morrison, A. C., 266
A. F., 460
C., 294
D., M.A., 294
E. E., 292
H. S., 298
I. F., 331
Bishop J., 391
J., F.I.A.N.Z., 460
J., D.D., 271
Jane, 281
J. C., 282
J. T., 489
J. T. J., 26
L., 75
R H., 433
T. A., 265
Morrow, J., 76
Morshead, O. F., 50
Morton, A. S., 394
C. A., 39
E., 178
H., 23
R. A., 91
V. C., 230
W. B., 300
W. C., 81
Mosley, F. O., 252
Moss, C. E., 491
E. H., 330
H., 130
K. N., 25
Mrs. M., 491
W., 42
Moti Chand, 512
Mott, Sir F. W., 26, 159
Mottram, V. H., 127
Mouat, T. B., 221
Moulsdale, S. R. P., 68, 69
Mount, Sir W. A., 250
Mountford, E. H., 97
Mountney, C. F., 37
Mouré, F. A., 397, 402
Mowat, J. L., 264
R. B., 198
Mowdawalla, F. N., 563
Moxon, A., 394
M. C., 368
Moyle, J. B., 200
R. C., 254
Moynihan, Sir B. G. A., 84
Mozley, J. H., 135
Mucklow, G. F., 177
Mudaliar, M. R. G., 540
Mudd, F. B., 494
Mudge, G. P., 136, 155
Mudie, A. D., 481
Muecke, F. F., 157
Mueller, P. W., 364
Muhammad-Shirani, 553
Muir, J., 289
M. M. P., 49
R., 274
R., Sc., 285
R. M., 473
W. L., 343
Muirhead, J. S., 284
C. M., 69
Mukarji, A. T., 557
S. N., 504
Mukerjee, A. N., 524
B. G., 523
R. K., 534
Mukerji, A. C., 508
B., 546
B. B., 534
D. N., 507
D P., 534
H. K., 508
J. G., 533
J. N., 548
N. C., 508
N. M., 510
S. K., 509
S. K., Delhi, 534
S. N., 532
Mukharji, H. C., 558
Mukherjee, B. B., 558
P., 523
P. C., 527
Mukherji, R. N., 558
Mulcahy, C., 312
Mulgan, A. E., 462
Mullally, G. T., 162
Mullan, J. P., 516
Muller, C. E., 393
Mullick, D. N., 506
Mulligan, Mrs. A., 492
J. H., 263
Mulock, Sir W., 397
Mullock, A., 34
Mumford, A. H., 180
Munby, W. M., 84
Mundie, G. S., 360
Mundle, H. B., 509
Mungo, D. B., 284
Munro, A., 51
A. R., 437
A. W., 444
D. G., 540.
Munro, G. H., 463
H. F., 343
J. A. R., 189, 199
L. A., 368
L. K., 462
M. F., 394
Munroe, A. R., 332
Munsey, S. W. U., 54
Murad, F. D., 506
Murchie, R W., 368
Murdoch, W. L. F., 450
Murdoff, H. M., 369
Mure, G. R. G., 199
Murison, A. F., 123
Murphy, B. E., 464
C. K., 318
G. H., 344
J. M., 434
J. J. F., 301
N. R., 198
T. W., 343
Murray, A. A., 370
C. S., 457
D., 280
D. A., 356
E. F., 72
E. G. D., 48
F. H., 343
F. B., 460
G., 191, 198
Sir G. J. R., 425
G. R., 187
Helen, 24
H., 342
H. L., 96
H. M. R., 54
J., M.B., 162
Jessie, 82
J. A., 252
J. B., 280
J. C., 492
J. M'N., 273
J. O. F., 42, 53
L. F., 282
M. A., 117
Mrs. M. M. A., 148
R. E., 440
W. C., 393
W. G. R., 471
W. H., 401
Murray-Aynsley, C. M., 76
Mursell, H. T., 493
W. A., 265
Muscio, B., 442
Musgrove, R. B., 355
W. W., 370
Muskett, A. E., 298
Muslim, Md., 558
Mussen, A. A., 95
Mustafa Qadiri, Sh., 551
Mutch, N., 158
Muzaffaruddin Qureshi, 550
Mya-Bu, U., 560
Myddleton, W. W., 137
Myers, C. S., 49, 140
J. E., 175, 176
Myles, W. H., 553
Mylks, G. W., 388
Mylvaganam, H. B., 542
Myres, J. L., 193, 200

Nabarro, D. N., 172
Nadeau, E., 350
H., 374
Nadgir, Y. G., 516
Nag, K. C, 531
N. C., 513
U. C., 527
Naidu, V. S, 547
Naik, D. B, 517
K. G., 516
V. B., 518
Nair, P. D., 546
P. S., 548
Naime, A., 43, 49
Naish, A. E, 220
Mrs. L., 217
W. A., 171
Najm-ud-Din, 553
Najmul Huda, 550
Namazi, M. E., 516
Nanavati, M. H., 547
Nance, J. T., 91
Nandi, P., 522
Nanji, D. R., 23
Nansen, F., 292
Naolekar, N. R, 547
Naralkar, N. G, 518
Narasimhamurthi, N., 542
Narayan, Hirde, 547
L., 534
Narayana Iyengar, 543
Narayana, Rao B. K., 543
Narayana Rao, C. R., 543
Narborough, F. D. V., 201
Narke, G. G., 518
Nascar, P. W., 509
Nash, A. W., 25
Nasir Ahmed, 551
Nath, B., 513
K., 532
Nathan, I., 473
Sir M., 437
Nattrass, F. J., 72
R. M., 33
Nauta, R. D., 472
Nawal Kishone, 532
Naylor, E W., 49, 51
H. D., 425
T. M., 82
Neal, J. H., 481
Neale, J. E., 123, 178, 187
Neame, H., 160
Neave, F., 368, 373
Neaverson, E., 92
Needham, H. A., 34
N. J. T., 49
Needler, G. H, 401
Neethling, J. H, 488
Negus, V. E., 126, 157
Neill, A. G., 456
R. M., 265
S. C., 53
Neilson, A. T., 282
Neish, A. C., 386
Nel, G. C., 488
Neligan, G. E., 162
Nelson, E. A., 432
J. J. H., 555
Neser, C. P., 486
V., 485
Ness, A. R., 357
Nettleton, H. R., 138
Neville, E. H, 251
H. A. D., 252
J. T., 413
K. P. R., 413
New, C. W., 364
Newall, H. F., 42, 53
Newberry, P. E., 90
Newbery, E., 471
Newbold, A. A., 179
Newbon, J. L., 228
Newboult, H. O., 198, 199, 201
Newcomb, C., 540
E., 82
W. B., 160
Newcombe, J. A., 400
L., 116, 119
Newell, A. G., 480
Newham, H. B. G., 163
Newland, H. S., 427
Newlands, Mrs., 387
W., 458
Hon. W. H, 393
Newling, P R, 427
Newman, F. H., 244
L F., 51
M. H A., 52
Newstead, R., 100
Newth, H. G., 26
Newton, A. P., 125
E. A. R., 450
H. A. S., 430
J. D., 330
M., 396
R., 330
W. H., 246
Nicholas, S. D., 23
T. C., 44, 53
W. A, 567
Nicholls, A. G, 344
A. W., 202
G. E., 450
L., 565
Nichols, E. W., 342
F. C., 37
L. H., 332
Nicholson, A. J., 442
D., 370
G. G., 441
G. W. de P., 155
H. H., 252
J. A., 354
J. H., 34, 37
J. S., 279
J. W, 197
P. J., 391
R. A., 47
Nickerson, C. B, 342, 345
Nicol, D. B., 271
J., 171
J. W., 284
R. M., 284
T., 281
Nicoll, J. R. A., 135
W. B., 80
Nicolson, C. A., 269
Nield, N., 36
Nierenstein, M., 33
Nigam, K S., 534
Nilakantasastri, K. A, 538
Nilles, Th D, 384
Nisbet, R G, 281
Nitch, C. A R, 162
Nixon, E. V, 431
J. A., 36
R. H., 534
R. L, 347
W. F., 498
Niyogi, N., 557
P., 524
S. P., 522
Nobbs, P. E., 354
Noble, R. H., 556
Nock, A. D., 48
Nolan, J. J., 315
P. J., 312
Nolin, J., 374
Nonhebel, G, 81
Noonan, T. P., 434
Norbury, A. L., 240
L. E C., 162
Norenius, A. C., 482
Norman, H. J., 159
R. T., 68
Normand, A R, 517
Norris, E. T., 453
J. W. C., 151
R. V., 563
Norrish, R. G. W., 49
North, C., 457
F. G., 357
Norton, A. A., 401
E. L., 370
Norwood, G., 236
Notcutt, H. C., 488
Nova Scotia, Archbishop of, 347
Novis, T. S., 516
Nowlan, F. S., 367
Numbers, A. H., 270
Nunan, W, 516
Nunn, G. M., 451
T. P., 144
Nurul-Aziz, Md., 535
Nutt, M. M., 182
Nuttall, F. E, 366
G. H. F., 43, 50
H. C. W., 96
J. M., 179
Nutter, J. A., 360

OAKDEN, J. C., 183
Oakeley, H. D., 126
O'Brien, L., 321
M., 299
O'Cadhlaigh, C., 318
O'Callaghan, P., 316
O'Connell, F. W., 303
O'Connor, D., 314
D. J., 318
E. A., 437
F. J., M.D., 388
F. J., B.Sc., 391
H. G., 320
J. M., 315
P., 316
T. J., 299
O'Donnell, D., 434

O'Donnell, G. H. R., 382
T. F., 510
O'Donoghue, C. H., 368
D. J., 434
E., 318
T., 318
O'Donovan, J. M., 318
W. J., 318
O'Dwyer, R., 315
O'Farrell, T. T., 315
O'Farrelly, A., 315, 316
O'Higgins, E., 92
O'Keeffe, D., 315
O'Kelly, M., 314
W. D., 315
O'Leary, De L., 35
O'Maille, T., 320
O'Malley, B. L. A., 138
M. C., 320
O'Meara, T. R., 406
O'Neill, E. E., 299
E. J., 458
Hon. H., 298
H., 179
J., 312
J. J., 314
J. J., M.Sc., 355
O'Nolan, G., 312
O'Rahilly, A., 317, 318
T. F., 306
O'Reilly, M. J., 444
O'Shea, M. R., 462
O'Sullivan, E. M., 318
J. M., 314
P. T., 319
R., 434
Occleshaw, V. J., 91
Ockley, L. L., 402
Odell, W. L., 132
Odgers, P. N. B., 190
Oertel, H., 359
Offor, R., 80
Ogden, O. W., 71
Ogg, A., 473
D., 200
Ogilvie, A. C., 271
F. W., 201
Ogle, C., 158
Oille, J. A., 404
Ojha, Damri, 507
Okada, R., 442
Okey, T., 44, 49
Okill, J., 94
Oldfield, C., 84
Sir F. du P., 178
Oldham, C. H., 314
O., 481
W., 426
Oldroyd, G., 171
Oliver, D. T., 49, 53
E. H., 395
F. W., 116
Sir T., 71
T. H., 181
W., 270
Olmsted, J. M. D., 403
Olson, B. H., 369
Olver, S. H., 163
Oman, Sir C. W. C., 189, 193, 197
Oman, J., 159
Onions, C. T., 192, 199
R. B., 91
Oppenheimer, M., 177
Ord, B., 50
C., 39
Orenstein, A. J., 493
Orford, E. J., 137
Orme, F., 219
Ormerod, H. A., 81
Ormond, A. W., 160
Ormsby, H., 139
M. T. M., 118
Orr, D., 181
H., 332
J., B.Litt., 177
J., M.B., 300
J., B.Sc., 492
J. B., 265
J. H., 388
W., 316
Orton, A. A., 450
K. J. P., 233
Orwin, C. S., 196, 197
Osborn, L. J., 97
T. G. B., 425
Osborne, G. H., 255
W. A., 432
W. F., 367
W. T., 328
Oschwald, U. A., 171
Ostrorog, L., 146
Ottawa, Archbp. of, 384
Ottewell, A. E., 333
Ottley, R. L., 196, 197
Ouellette, J.-B., 375
Oulton, J. E. L., 305
Owen, B. J., 196
D., 171
D. R., 96
E., 336
E., Barr.-at-Law, 94
E. T., 398
F., 331
G., 230
J., 96
L. G., 560
L. V. D., 247
M., 548
M. B., 226
S. G., 198
W. J., 245
Ower, J. J., 332
Oxley, O. P. J., 481
Oxner, B. G., 394
W. C., 344
Oza, K. L., 517

Pace, E. G., 68, 69
Packer, J., 460
Pagan, G. M., 472
Page, C. M., 162
R. A., 483
W. S., 145
Pagé, J. D., 351
Paget, G. W., 92
Pahanhekar, S. V., 514
Paine, H. H., 492
S. G., 130
Pakeman, S. A., 564
Pakenham, W., 399
Pal, B. K., 559
N. C., 527
Palekar, S. V., 516
Palmer, A., 250
A. C., 156
Mrs. G. W., 250
Mrs., 54, 151
L. S., 183
T. G. F., 145
W. G., 43, 52
Palocaren, J., 539
Pan, N., 523
Panandikar, S. G., 516
Panday, K. D., 546
Pande, H. R., 513
K. D., 547
K. N., 557
N. K., 513
S., 513
S. A., 507
S. K., 532
T. D., 514
Pandit, B. R., 546
S. R., 504
Pandya, D. D., 534
K. C., 510
Panneton, J. E., 377
Pannett, C. A., 162
Pant, D., 535
Panton, R. C., 24
Papwoth, H. C., 538
Paquet, A., 351
L. A., 350
Paquette, A., 384
Paquin, R., 351
Parameswaran, H., 538
Paranjpe, M. R., 518
V. G., 518
Paranjpye, G. R., 516
R. P., 518
Paré, A., 377
Pares, Sir B., 47, 127
R., 197
Pariseau, L., 377
Parizeau, T., 376
Park, J., 457
Parker, A., 85
C. E., 151
E. A., 517
E. H., 91, 176
G., 36
H. M. D., 202
M. A., 366
N. H., 364
O. M., 432
R., 96
W. E., 170
Parkes, G. D., 202
Parkin, A., 72
J. H., 399
Parkinson, D., 299
J., 158
S. T., 143
Parks, W. A., 401
Parlee, H. H., 331
Parmanand, 508
Parnell, T., 438
Parrett, F. S., 434
Parrott, A. H., 27

Parry, D. H., 140
E. A., 92
E. G., 97
R. St. J., 53
R. W., 233, 234
S. P., 90
Parry-Williams, T. H., 230
Pars, L. A., 49
Parsada, A., 532
Parsons, A. L., 402
C. W., 284
F. G., 154
Sir J. H., 160
L. D., 565
L. G., 26
R. G., 180
T. R., 45
Partington, J. R., 135
Parton, F. W., 80
Partridge, E., 177
F. C., 471
W., 129
Pascoe, C. F., 358
Passant, E. J., 41, 52
Passey, R. W., 238
Passmore, J. B., 252
Pastor, A. R., 127
Patankar, P. N , 513
Patch, C. J. L., 555
F. S., 360
Patchett, E. W., 255
Patel, B. S., 518
K. P., 547
Paterson, A., 233
A. C., 462
D. H., 156
D. R., 238
J. A., 147
J. M., 456
J. V., 273
J. W., 450
M. J., 127
N. F., 493
P., 285
R. S., 175
W. P., 270, 276
Patience, A. M., 399
Paton, A., 80
D. A., 251
D. N., 283
H. J., 200
L. J., 160
Patravali, D. P., 516
Patrick, A., 295
D., 359
J., 285
Miss, 396
M., 331
W., 280
Patten, C. J., 217
R. H., 358
Patterson, A. W., 397
A., 318
C., 271
C. F., 394
D. W., 72
E. J., 243, 244
F. W., 328
G. C., 402
M. W., 201
Patterson, N., 157
T. S., 281, 286
W. H., 135
W. J., 414
Patton, R. T., 430
W. S., 272, 279
Patwardhan, R. P., 516, 518
V. P., 518
Paues, A. C., 54
Paul, E. B., 339
E. W., 405
J., 289
J. N. W., 547
S. C , 566
Pauw, D A. A., 488
Pawson, H. C., 75
Payne, H., 431
Payne-Smith, W. H., 198
Payton, C. G., 23
Peacey, J. R., 53
Peacock, A. D., 77
D. H., 559
Peake, A. H., 46, 52
A. S., 175, 180
Pear, T. H., 179
Pearce, E. C., 41, 48
F. G., 510
F. J., 163
Pearl, R T., 143
Pearsall, W. H., 81
Pearse, G. E., 491
Pearson, A. C., 43, 53
A. E., 84
C. B., 319
C. E., 77
C. Y., 319
J., 565
K., 118
L. B., 401
R. L., 251
W. J., 174
Pease, M. F., 34
Peck, Mrs. L , 247
Peddie, J. R., 288
W., 294
Peden, Hon. J. B., 443
Peel, T., 46, 50
W. R., 195
Peers, E. A., 94
R., 248
Peet, T. E., 90, 177
Peirir, H. M., 566
Pelchat, J., 384
Pelletier, A., 384
F., 349, 351
G., 375
J. R., 350
L. P., 384
N., 351
Pelling, A. J., 491
Pellizzi, C., 119
Pelluet, A. P., 331
Pelly, A. C., 510
Pember, F. W., 189, 196
Pemberton, H. S., 96
J. S. C., 65, 68
R. E. K., 399
Pembrey, M. S., 161
Pendlebury, H. S., 162
Pendse, Gajanan G., 516
Pendse, N. B , 517
P. K., 516
Penington, F. E., 432
Pennell, V. C., 42, 51, 53
Pennington, S., 251
Pennycuick, S. W., 425
Penrose, A. P. D., 50
E., 190, 202
Penson, L. M., 137
Penzol, P., 83
Percival, E., 83
G. H., 273
J., 251
R. T , 219
Pereira, F. de A., 46
Peren, G. S , 464
Perham, M. F., 202
Perkin, A. G., 86
W. H , 191, 199
Perkins, B. N., 34
F. A., 437
Perman, E. P., 235
Pérodeau, Hon. N., 376
Perold, A. I., 488
Perpetua, M., 400
Perrault, A , 376
Perrett, G. B., 48, 51, 53
W., 118, 119
Perrin, F. E., 414
H. C., 356
L., 375
W S., 162
Perrott, S. W., 94
Perrousset, L., 384
Perry, A. J., 367
Sir E. C., 101, 137
H. G., 328
H. M. J., 160
J., 127
S. W., 399
T. G., 48
W., 271
W. J., 116
Peskett, A. G., 50
G L., 191, 202
Petch, J. A., 175, 178
Peters, B. A., 36
C. A., 359
R. A., 191
Peterson, J. M , 237
W. G., 293
Petherbridge, F. R., 48, 50, 52
Petrie, A., 481
Sir F., 117
G. F., 155
P. T., 183
Pettoello, D., 44
Petyt, A. S., 484
Peyton, S A., 251
Pfeil, L. B., 240
Pfister, H. J , 26
Phatak, B. R., 546
Phear, A. G., 158
H. W., 49
Phelan, G., 403
Phelps, L. R., 190, 200
W., 198
Philip, J. C., 131
Sir R. W., 269, 275

Phillimore, J. S., 281
Phillips, D., 225
E., 68
E. G., 233
E. M., 229
G., 441
G. A., 85
G. P. A., 119, 126
I. W., 283
J. G. P., 159, 164
M. H., 220
P. D., 432
R., 228
W., 236
W. A., 517
W. A., M.A., 306
Phillipson, C., 429
Phillott, D. C., 47, 146
Phillpotts, B. S., 63
Philp, B., 356
Philpott, S. J. F., 119
Philpotts, S. B., 50
Phoon, S. W., 569
Phukun, T. N., 525
Phythian, J. E., 176
Piaggio, H. T. H., 247
Piché, G. C., 349
Pick, M., 150
Pickard, R. H., 170, 173
Pickard-Cambridge, A. W., 197, 201
Pickbourne, H., 247
Picken, D. K., 434
R. M. F., 237
Pickerill, H. P., 456
Pickering, E. C., 288
J. W., 126
Pickles, F., 86
Pickthorn, K. W. M., 48
Pickworth, A. F., 27
Picton, Æ., 92
Pidduck, F. B., 193, 198
Pienaar, E. C., 488
Piercy, N. A. V., 135
Piersol, W. H., 398
Piette, V.-J., 374
Pigott, E., 464
Pigou, A. C., 45, 50
Pike, J. L., 271
S. R., 83
Pilcher, C. V., 406
Pillai, C. K. K., 538
D. K., 569
K. C., 538
K. S., 540
M. K. G., 540
S. S., 540
Pillers, A. W. N., 94
Pilling, G. F., 80
Pilon, H., 377
Pinches, T. G., 97, 116
Pineault, L., 375
Pinkard, F. W., 23
Pinsent, A., 229
Pinto, C. F. X., 566
F. F. T., 534
Piper, S. H., 35
Pippard, A. J. S., 236
Pirie, G. A., 295
J. H., 493
Pirie, J. W., 283
Pitcher, N. C., 331
Pitman, E. J. G., 432, 434
H., 34
Pitoy, L. M., 282
M. C., 282
Pittman, W., 487
Piyare Lal, 531
Plaistowe, F. G., 51
Plant, A., 472
S. G. P., 191
Platnauer, M., 197
Platt, J. A., 123
J. I., 230
R., 219
Plimmer, R. H. A., 155
Plummer, C., 198
F. E., 485
W. E., 91
Pocock, L. G., 117
Poirier, B., 375
M., 400
Polack, J., 35
J., D.D.Sc., 434
Pollard, A. F., 105, 118, 123, 168, 197
A. F. C., 132
A. W., 125
S., 53
T. R., 460
Pollitt, A. W., 93
Pollock, C. A. E., 48
Polson, C. F., 181
W., 171
Ponder, E., 272
Ponnappa, S. W., 566
Poock, A. G., 434
Poole, A. L., 201
E. G. C., 200
G., 77
J. H. J., 306
R. L., 189, 191, 199
Pooley, G. H., 220
Pope, A. H., 236
E. L., 332
M., 202
R. A., 229
Sir W. J., 43, 52
Popplewell, W. C., 183
Port, F. J., 101
Porteous, A. J. D., 272
C. A., 360
Porter, A., 493
A. T., 116
A. W., 119, 121
C., B.Sc., 157
C., M.D., 493
E. H., 92
E. L., 556
G. D., 397, 404
J. B., 358
M., 202
R. C., 24
W., 225
W. H., 318
Portland, the Duke of, 246
Portus, G. V., 441, 444
Portway, D., 48, 51
Postgate, J. P., 53
Postma, F., 482
Potter, A. O., 415
H., 25
H. H., 35
J. I., 315
K. R., 270
M. C., 79
S. M., 137
W. A., 402
Potts, A. E., 394
F. A., 46, 53
G., 479
L. J., 51
W. H., 92
Potvin, R., 351
Poulet, D., 384
Pouliot, A., 350
Poulton, E. B., 194, 199
E. M., 23, 24
E. P., 158
Pounder, I. R., 402
Powe, A. B., 441
Powell, D. E., 441
H. C., 485
H. L., 170, 174
I. G., 150
J. U., 201
P. H., 460
R. E., 360
T. W., 69
W. H., 337
Power, B. L., 547
E. E., 140
F. D., 442
M., 320
P., 317
Powicke, F. M., 178
Poynton, A. B., 189
F. J., 156
J. B., 198
Prain, Sir D., 417
Prakash, Suraj, 510
Pramanick, R. D., 534
Prankard, T. L., 250
Prasad, B. N., 508
Beni, 508
Bisheshwar, 508
Ganesh, 520
Gorakh, 508, 513
I., 508
Joti, 509
J. N., 513
K., 513
K., Patna, 557
M., 557
M., Benares, 514
Mata, 516
M. M., 514
P., 513
R., 558
S., 508
S., Benares, 514
S. P., 509
Pratt, E. J., 400
Pratten, F. H., 414
Praz, M., 92
Preece, C. T., 25
Prendergast, E., 434
Prentice, J. S., 547
Prescott, J., 183
J. A., 425

Prescott, J. C., 95
Prestage, E., 126
Preston, H., 80
Previté-Orton, C. W., 52, 64
Prévost, A., 376
J. A., 350
Preziosi, Cont. L., 499
Price, A. G., 427
A. T., 300
H. H., 201
H. W., 399
Ll. T., 294, 295
S. W., 236
W. T., 431
Prichard, H. A., 193
Prickard, A. O., 200
Prideaux, E. B. R, 246
S. P. T., 35
Priebsch, R, 118, 119
Priest, H. J., 437
Priestley, G., 86
H., 442
H. J., 437
J. G., 195, 197, 200
J. H., 81
R. E., 41, 48, 59
Primrose, A., 405
Prince, A. E., 387
S. H., 342
Pringle, H., 307
S., 307
Prinz, J., 472
Prior, E. S., 42, 49
O. H. P, 44, 52
Pritchard, H. L., 296
J. E., 369
Pritchett, L. W., 415
Probyn-Williams, R. J., 154
Procter, E. E. S., 202
H. R., 86
Profeit, W. J., 263
Proserpio, L., 539
Proudman, J., 53, 93
Prout, W. T., 96
Prowse, S. W., 369
Pruvôt, C., 539
Pryde, J., 237
Prys, O, 225
Pugh, W., 471
W. J., 230
Pullan, L, 201
Pullar, J., 369
Pulleine, R. H., 427
Punnett, M., 144
R. C., 44, 49
Punvani, M. G., 517
Purcell, P. F., 314
Purchase, J. E., 460
Purchon, W. S., 235
Purdie, E., 233
Purser, C., 440
G. L., 272
J., 131
J. M, 311
L. C., 304
O. C., 305
Purves, J., 272
Purves-Stewart, Sir J. P. M., 158
Purvis, J. E., 43
Pybus, F. C., 72
Pye, D. R., 53
Pyke, A. J., 394
Pyman, F. L., 182

Quastel, J. H., 53
Quayle, T., 504
Quick, E. E, 119
Quigley, F. J., 384
J. P., M.D., 388
J. P., M.Sc., 332
Quiller-Couch, Sir A. T., 43, 49
Quincey, E. de Q., 135
Quinlan, C. E., 235
J. B., 486
Quinton, A. D., 377
Quodling, F M., 441

Rabie, J. S. M., 479
Rabinovitch, I. M., 354, 359
Race, C. E., 330, 333
Rackham, H., 48
Radcliffe, C J, 197
G. R. Y., 200
L. G., 183
Radclyffe, E. J. D., 34
Radford, A., 246
Radhakrishnan, S., 520
Radloff, M., 482
Rae, R., 298
W. N., 564
Rafael, H., 517
Raff, J. W., 433
Raffi, A., 127
Rafiq-Ahmad, 505
Rageo, G., 149
Ragho Prasad, 558
Raghubar-Dayal, 553, 556
Rahimuddin, M., 550
Rahman, A. F., 527
H., 505
H., Hyderabad, 550
M. B., 535
Md. J., 550
Rai, D. G., 540
G., 532
Raikes, H. R., 198
Raiment, P. C., 191
Rainer, A. C., 272
Rainier, E. F. D., 473
Raison, C. A., 23
Rait, R. S., 282
Raj Jai Narain, 532
Raju, J. B., 548
Rakshit, A. C., 525
Ram Behari, 532
Ram, V. S., 535
Rama Rao, T. R., 550
Ramalingam, S., 560
Raman, C. V., 513, 521
Raman Nayar, M., 534
Ramanathan, Iyer, K. R., 560
Ramanthan, P. S., 548
Ramaswami, Iyer, 542
Ramaswami-Ayyar, 563
Ramaswamy, E. K., 542
Ramlal Kanjilal, 556
Rampratap, Shastri, 548
Ramsay, A. B., 41, 50
A. M., 202
Ramsay, C. N. M., 484
D. M., 406
G. A., 414, 415
H., 456
J., 289
W., 393
Ramsay Sharp, W. A., 444
Ramsbotham, R B., 525
Ramsbottom, A., 181
J., 137
J. W., 173
W. H., 492
Ramsden, W., 91, 200
W. C., 305
Ramsey, A. S., 50
F. P., 50
Ranade, Y. B, 548
Randall, O R., 24
Randle, H. N., 508
Randon, L. A., 498
Rane, M. B., 513
Rangachariar, S., 540
Ranganatham, N., 547
Ranganathan, S. E., 538
Rankin, A. C, 332
J. C., 300
J. S., 289
M. T., 270
Rankine, A. O., 132
J. C., 283
Ranner, S. C., 165
Rao, C. H. V., 553
C. S., 545
K A., 538
K. J., 539
M. C. S. A., 538
V. G., 516
Raper, H S., 179
Rapson, E. J., 47, 52
Rashkovitch, Prof., 123
Rastall, R. H., 44, 48
Rathbone, H. R., 90
Ratnoff, N., 497
Rattenbury, R. M., 81
Rattray, R. F., 47
Rautenbach, C. H., 486
Raven, E. E., 52
Ravenscroft, A. P., 473
Raw, F., 25
Rawling, L. B., 162
Rawlinson, A. E. J., 196, 198
H. G., 518
J. F. P., 41
Rawsthorne, F., 181, 182
Ray, B., 523
J. H, 181
N. C., 524
N. K., 510
P., 525
Sir P. C., 520
S., 524
S. H., 146
S. N., 535
W., 427
Raye, N., 524
Raymond, L. C., 357
W. T., 382
Raymont, T., 170, 173
Rayner, D C., 36
H. H., 180, 181

Raynor, J. G., 395
Rea, G., 393
Read, A. A , 236
J., 293
J E , 343
Reade, T. H., 263
W. H. V , 202
Reading, R. F., 444
Rébora, P., 178
Reddaway, W. F , 50, 54
Reddick, O. I., 535
Redford, A., 139
Redington, G., 75
Reed, A. W., 125, 139
E. R. L., 410, 450, 452
G. B., 388
Rees, F. E , 225
H., 230
J., 235
J. F , 24, 279
J. M , 229
J. P., 25
J. W., Durham, 77
J. W., 180
M. F., 225
T , 225, 233
T. K , 240
W., 236
W. J., 219
Reeve, E. F., 95
W., 132
Reichel, Sir H. R., 199, 232, 455
Reid, A , 481
C., 265
D. G., 42
E. W , 294
F. W., 427
G. A , 406
G W., 456
H. M. B., 281
J., 263
J. M. W , 75
J. S., 49, 63
L. A., 230
M. G., 401
W. J. S , 182
Reifenberg, I. A., 497
Reilley, H. E., 356
Reilly, C. H., 90
J., 318
Reimers, J. H. W., 488
Reinecke, C. S. H , 488
Remink, H., 477, 485
Reitz, R., 486
Relton, H. M., 152
Renaud, E., 384
Renault, G E., 92
Rendell, W. R., 53
Rennett, N. I., 265
Rennie, E. H., 425
E. J. C., 430, 431
H. M., 433
J., M.D., 221
J., D.Sc., 265
W., 281
Renouf, L. P. W., 318
Renton, J. M., 285
Renwick, A. D., 517
J., 219
Renwick, W. L., 76
Rettie, T., 274
Revell, D. G , 330
Rexford, E. I , 360
Reyburn, H , 473
Reynard, H., 128
Reynolds, F. E , 274
J. B., 406
R. P., 415
S. H , 34
Rhea, L J., 359
Rhead, E. L., 183
Rhéaume, P. Z , 377
Rhind, A., 171
Rhodenizer, V. B., 328
Rhodes, D., 202
E., 81
E. C., 140
F. W., 143
Rhynehart, J. C , 298
Rhys, O. Ll., 238
Rice, C. H., 555
J., 93
J. P., 300
Rice-Oxley, L., 202
K., 131
Richard, L. A., 349
M. E. J., 373
Richards, C. D., 382
G. C., 200, 202
G. B., 405
H. C., 437
I. A., 50
R., 234
R., M.D., 266
R. C., 120
Richardson, A , 81
A. E., 116
A. E. V., 425, 436
A. R , 240
A. V , 336
D., 170
D. H., 170
E. Y., 73
G. M., 464
G. W., 82
H., 54
J. B., 138
L , 338
L. J. B., 236
L. G., 248
O. W., 126
S. G., 82
T. H., 523
W. A., 246, 247
Richey, J. A., 504
M. F., 150
Richmond, the Duke of, 263
H. W., 50
N. M., 463
O. L., 270
V. C., 130
Rickard, S. H., 560
Ricks, E. M., 254
Riddell, J. H., 371
J. R., 284
J. S., 263
W., 300
W. F., 367
Riddett, W., 462, 463
Riddlebaugh, G., 331
Riddoch, G., 158
Rideal, E. K., 45, 53
Ridgeway, Sir W., 42, 43, 49
Ridington, J., 337
Ridler, H. A., 444
Ridley, M. R., 197
Rigal, J. L., 312
Rigby, Sir H. M., 162
Rigg, A. E., 195
S. K., 37
Riggs, E. J., 245
Rigney, T. J., 388
Riley, C. F. C., 368
D. L. B , 509
F. R., 457
Rimmer, T., 438
Rindl, M., 479
Rinfret, F., 375
T., 358
Riopelle, P. E., 376
Riou, P , 374
Rippon, C., 85
Risdon, F. E., 405
Rishbeth, O. H. T., 252
Rishworth, F. S., 320
Risi, L., 349
Rissik, P. U., 485
Ritchie, A. D., 53, 179
D. L., 360
E. D., 202
Frances M., 24
R. I., 457
R. L. G., 25
S. G., 344, 345
W., 466, 472
W. T., 274
Ritson, F. W., 68
J. A. S., 83
Rivard, Hon. A., 349, 350
Rivett, A. C. D., 430
D M , 442
Rivlin, R., 497
Rixon, F. W., 33
Riza, Sd. M. S., 517
Rizavi, M. H. Sd., 535
Roach, W. J., 403
Roaf, H. E., 161
Roast, H. J., 358
Robb, C. A., 331
J., 80
Janet, 273
Jas., 261
J. H., 298
R. A., 283
Robert, A., 350
Roberts, A. A., 484
A. R., 358
C., 181
C. H., 244
D. E., Calcutta, 525
D. E., Wales, 229
E., 135
E. J., 232
Ff., 45, 48
H. A., 59, 60
H. F., 366
I., 181
I. L., 373
J., 281

Roberts, J. A. F., 232
J. E. H, 162
J. F., 406
O. F. T., 264
P. E., 201
R. A., 232
R. E., 96
R. S, 234
R. W., 93
S G., 195
T. S., 230·
T. T., 441
W. H., 91
W. J., 236
W. M., 180
W. R. W., 304
Robertson, A., 37
A. A., 362
A. D., 414
A. J., 150
C. G., 23, 197
D., 37
D. H., 43, 53
D. S., 53
E., 233
F. S., 125
G. C. A., 80
G. J., 293
G. M., 274
G. S., 298, 302
H. G., 398
Sir J., 26
J., B.Sc., 283
J. B., 491
J. C., 398
J. G., 118, 120, 147
J. G. M'G., 285
J. K., 387
J. M., 289
J. McG., 281
L. F., 337
M., 25
P. W., 464
R. A., 293
T. B., 426
W. A. N., 430
Robichaud, P., 376
Robins, J. D., 400
Robinson, A., D.C.L., 65, 66, 68, 69
A., M.D, 269
A. H., 441
D. A. F., 402
E. A. G., 48
E. M., 486
F. E., 35
F. W., 437
G. E., 338
G. W., 232
H., 272
H. W., 152
L., 90
P. L., 76
R., 176
T. H., 226, 237
T. R., 402
Wilfrid, D.Sc., 176
W. F., 460
W. J., 415
W. L., 404
Robison, G. G. S., 464
L. McD., 564
R., 155
Robson, G. M., 480
Robitaille, A., 350
Hon H. A., 371
H. C., 52
W., 275
W. A., 140
W. F., 82
W. G., 294
Roche, A. J., 355
W. J., 413
Roderick, H. B., 47, 51
Rodger, A. B., 197
J. F., 283
Rodway, L., 448
Roe, F. C., 293, 297
Roffey, M. H., 568
Rogers, A. H. E., 472
C. F., 152
J. S, 432
J. S Y., 294
L. J., B.A.Sc., 398
L. J., B.Mus., 200, 201
L. M., 262
N. McL., 328
P., 329
R. S., 426
W., 369
Rogerson, H., 91
Roland, S. W., 139
Rolleston, Sir H. D., 46, 52
Rollo, J. C., 542
R. L., 263
W., 401, 411
Romanis, W. H C., 162
Romanis-Lee, J, 568
Rooke, E. W., 203
Room, T. G., 64, 93
Rooney, W. J., 450
Rootham, C. B., 45, 52
Rorke, R. F., 370
Rose, Baron, 23
B., 387
F. A., 157
H. J., 229
J. H., 44
W., 125
Rosebery, the Earl of, 101, 280
Rosebrugh, T. R., 399
Rosenstein, V., 495
Rosenthal, S. M., 359
Roseveare, W. N., 481
Ross, A. D., 450
C. N., 437
E. B., 538
Sir E. D., 126, 145, 146
G. E. N., 485
G. M., 306
G. R. T., 560
J. A., 479
J. C., 484
J. D. M., 270
J. J., 281
K., 457
L. H. M., 432
M., 413
M., M.B., 445
R., 328
Ross, R. A., 494
R. W., 538
S. G, 359
W. D., 193, 200
Rossett, G. P., 487
Rossouw, G., 485
Roth, H. L., 179
Rothenstein, W., 33, 47, 217
Roughton, F. J. W., 43, 53
Rouleau, A., 376
Roulleau, M, 255
Rous, C. C., 397, 405
Rouse, W. H D, 47
Rousseau, A., 351
I. J., 484
Routh, H. V., 147
Routledge, F. J., 92
Rowan, W, 332
Rowe, A. P., 94
C. H., 304, 306
F. M, 183
J. W. F., 139
T. W., 461
W., 244
Rowell, E. M, 150
M., 35
M. C, 401
Rowland, N. de H, 443
Rowlands, M. G, 229
R. A., 158
R. P., 162
W. S., 547
Rowling, S. T., 83
Rowntree, G., 413
Rowse, A. L., 197
Roxburgh, R. F., 168
Roxby, P. M., 92
Roy, B. C., 522
B. K, 527
C., 349
C. B., 557
C. G, 534
D. W., 156
F., 350
F. T., 534
G., 350
J. A., 387
J. N., 377
K. C., 531
M. N., 521
Sir P. C., 513
P. E., 349
P. N., 513
R. C., 557
S., 351
S. C., 521
S. P., 507
Roy-Saksena, K. C., 550
Royce, G., 404
Roystrock, J., 539
Rozelaar, L. A, 135
Rudall, R. J., 426
Rudge, C. K., 32
Rudler, G., 192
Rudmose-Brown, T. B., 307
Rudolf, R. D., 405
Rudra, S. K., 507
Rule, H. G, 270
Rumault, M. L., 150
Rundle, C., 95

Rushmore, F. M., 51
Rush, E. L., 401
Rushton, A., 131
W., 155
Russ, S., 161
Russell, A. E., 158
A. S., 198
Hon. B., 53
C. K., 359
E., 33
E. H., 339
E. K., 403
J., 413
Sir J., 174
J. M., 471
J. S. R., 172
J. W., M.A., 414
J. W., M.D., 26
L., 138
L. J., 35
R., 289, 304
R. J., 371
W. W., 116
Ruston, A. G., 80
Rutherford, A., 274
Sir E., 45, 53
R. L., 331
T. D., 77
W. J., 394
Rutledge, L. T., 387
Ruttan, R. F., 355
Rutter, E., 394
Ruxton, W. L., 72
Ryan, A. H., 300
E., 388
F. W., 387
H., 314
M., 318
M. J., 311
R., 493
W., 434
Ryder, A., 380
Rye, R. A., 101
Ryerson, E. S., 397
Ryffel, J. H., 155
Ryle, G., 198
J. A., 158
Ryrie, B. J., 188, 474

Saayman, R. B., 479
Sabnis, R. P., 518
Sabonadière, A., 146, 168
Sacasa, F., 517
Sackville, J. P., 330
Sacks, S., 472
Sacret, J. H., 251
Saddler, W., 294
Sadler, A. L., 442
Sir M. E., 190, 201
W., 339
Sadr-ud-din, 553, 556
Sage, G. B., 414
W. N., 338
Sager, J. L., 243
Saha, M. N., 508
K. B., 527
Sahai, H., 533
Sahasrabuddhe, D. L., 518
Sahay, S. N., 504, 558
Sahni, B., 534
Sahni, B. L., 514
Saiduddin, 550
Said-uz-Zafar Khan, S., 533
Saint, C. F. M., 474
S. J., 80
Saint-Jacques, E., 377
St. John, M., 399
W., 561
St. Laurent, L., 350
Saint-Pierre, A., 375, 377
Sajjad-Hyder, S., 505, 506
Sajjad-Husain, S., 550
Saksena, B. R., 508
N. C., 547
R. C., 514
R. K., 507
Saldanha, A., 539
C. F., 517
C. P., 517
Salisbury, E. J., 116
Salmon, C. S., 124
E. S., 143
W. H., 171
Y. M., 251
Salmond, C. F., 461
Salsbury, J., 171
Salt, G. McB., 463
H., 86
H. E., 53
L. E., 200
S. F., 202
Salter, F. R., 50
H. E., 199
Saltmarsh, M. O., 148
Salvesan, H. K., 200
Samaddar, J. N., 557
Samaranickrema, W. A., 565
Samman, H. F., 47
Sampat Iengar, P., 542
Sampatkumaran, 542
Sampson, C. H., 189, 197
J., 90
K., 229
M., 97
R. A., 270
Samuel, G., 425
Samuels-Lal, P., 553
Samut, R., 498
Sanborn, J. R., 357
Sand, H. J. S., 170
Sandbach, F. E., 25
Sandeman, E., 177
Sanders, H. F., 247
H. W., 426
T. R. B., 48
Sanderson, W. J., 71
Sanderson-Mongin, Mme. E., 339
Sandes, F. P., 444
J. D., 523
T. L., 473
Sandford, A. W., 319
Sandham, B., 301
Sandiford, P., 399
Sandin, R., 330
Sandwell, B. K., 390
Sandys, A. M., 203
Sane, S. M., 534
Sanjiva Rao, B., 563
Sankey, R. H., 195
Sant Ram, 531, 532
Sanyal, A. N., 514
H. C., 525
Sapru, P. N., 514
Sir T. B., 514
T. N., 504
Saran, Shankar, 514
Saraswati Prasad, 508
Sarbadhikary, J. P., 521
Sargant-Florence, P., 52
Sargent, A. J., 111, 139
H. A., 480
P. W. G., 162
Sarkar, B., 523
J. K., 558
J. N., 557
M. K., 553
M. L., 524
M. S., 524
S. C., 557, 558
Sarma, D. S., 538
R., 557
Sarolea, C., 271
Sarup Shastri, P. R., 506
Sastri, R. S., 542
S. K., 538
Sathe, S. G., 516
Satterly, J., 403
Saunders, A. J., 539
J. C., 48
J. T., 46, 48
L. G., 393
L. P., 560
Savage, A., 368
Savard, G., 349
Savignac, E., 375
Saville, D., 85
Savoor, S. R. U., 538
Savory, D. L., 299
G. H., 137
Saw, A. J. H., 450
Sawkins, D. T., 440, 441
Saxby, I. B., 236
Saxelby, F. M., 171
Saxena, B. P., 508
Saxton, W. T., 250
Say, M. G., 289
Sayce, A. H., 200
R. U., 481
Sayed, A., 558
Saynor-Thompson, R., 219
Scales, F. S., 46
Scarborough, H. A., 48, 51
E. M., 160
Scargill, H. B., 84, 85
Scarrow, A. N., 399
Scarth, G. W., 354
Schaef, H. E., 413
Schafer, Sir E. A. S., 272
Schaffer, R. J., 191
Scherling, C., 560
Schiller, F. C. S., 198
Schindler, C., 437
Schlapp, O., 271
R., 272
Schneider, G. A. S., 49
W. H., 448
Schofield, J. A., 440
S. J., 338
Scholefield, E. H., 182

Scholes, G. E., 94
L. R., 444
Scholfield, A. F., 41, 50
A., 254
Schollick, M. S., 431
Scholtz, D , 485
Schonland, B. F. J , 473
S., 484
Schopp, J. W., 244
Schott, G. A., 230
Schreiner, O. D., 492
Schryver, S. B., 130
Schultze, H. G., 482
Schulz, A. J., 425
Schuster, Sir A., 179
E. H. J., 200
F. V., 116
Schwartz, E. J., 124
G. L., 137
Schwarz, E. H. L., 484
Schweizer, W. R., 247
Schwellnuss, O., 485
Sciortino, A. F., 498
Scobie, J., 282
Scoble, W. A., 170
Scott, A., 93
Alice, 82
A. A., 510
A. W., 289
D., 295
E., 432
Eliz., 24
E. M., 150
Sir G. G., 90
H., 61
J. E., 49
J. W., M.A , 237
J. W., M.D., 330, 359
L. C., 401
L. I., 81
M. E., B.Sc., 431
M. E., M.B.E., 559
M. L., 427
P. J., 531
Sir R. F., 41, 51
R. W., 343
S. R., 157
W., 417
W. H., 284
W. H., M.D., 332
W. M., 367
W. R., 283
Scott-Fletcher, M., 438
Scrimgeour, A. C. S., 472
Scrimger, F. A. C., 360
Scripture, E. W., 125
Scrivener, F. L. C., 143
Scroggie, A. G., 333
Scullard, H. H., 152
Scutt, C. A., 431
Seaby, A. W., 250
Seagar, E. A., 417
Seager, C A., 411
Seal, B. N., 516, 518
B. Nath, 542
Seaman, A. M., 462
Searle, G. F. C., 45
V. H. L., 244
Seaton, E. A., 504
I. W., 298
Seaton, M. E., 202
Seccombe, W., 406
Secker, J., 72
Secord, W. H., 370
Seddon, C. N., 195
Sedgefield, W. J , 177
Sedgewick, G. G., 338
Sefi, A., 145
Segall, J., 35
Segar, H. W., 453, 462
R., 199, 201
Selby, A., 247
A. L , 237
Seligman, C. G , 139
Sell, F. R., 542
Sellars, R., 175
Selle, W. A., 440
Sellers, A., 182
M., 82
Sells, A. C , 547
A. L , 52
Semple, Jean M., 281
P., 314
R , 266
Sen, A. C., 524
B., 523
B. M., 524
D. N., 558
D. N., Benares, 513
H., 525
H. K., 520
J. M., 523
N., 520
N. C., 504
N. K., 532
P. C., 524
R. C., 558
R. N., 524
S , 558
S. K., 532
S. N., 514
Senapati, M. M., 557
Sénécal, R., 384
Sen Gupta, A. C., 547
Sen-Gupta, N. C., 527, 530
Sengupta, B., 516
B. C., 525
H. C., 524
Senior, W. S., 564
Senter, G , 137
Sequeira, J. H., 156
Serton, P., 489
Seshadri, P., 513
Setalvad, Sir C. H., 515
Seth, H. S., 509
M. L., 531
R. B., 531
Sethi, N. K., 513
Seton, R. S., 80
W. W., 116, 118
Seton-Watson, R. W., 127
Seward, A. C., 41, 43, 48
Sewell, D. L., 180
S. V., 433
Sexton, C. W. N., 431
Seyer, W. F., 337
Seymour, H. J., 314
H. L., 404
P. A., 199
Shackleton, M. R., 117
Shafi, M , 553, 554
M. Sir Md , 531
Shah, K. T., 515
N. J., 514
N. M., 518
Shahani, M. S , 532
S. C., 517
T. K , 516
Shahidullah, M., 528
Shaikh, A. K. S., 516
Shakespear, G. A., 26
Shand, S. J., 489
Shane, G., 375
Shaner, R. F., 330
Shankland, T , 233
Shanks, E. B., 93
G., 523
G. L., 368
L. P., 416
W. F., 83
Shann, E. O. G., 450
Shannon, D., 285
M. E., 533
Shareef, S. M., 558
Share-Jones, J., 94, 98
Sharif, M. M., 506
Sharma, A. K., 556
H. D., 532
Pt. Ghanshyam, 510
Sharman, M. S., 431
Sharp, C. H. C., 532
C. W. C., 474
L. H., 443
M., 135
Sharpe, C. W., 90
Sharpley, E. M., 54
Sharrard, J. A., 393, 394
Shastri, B. N., 535
P. D., 523
R. M., 508
Shattock, C. E., 162
Shaw, A F. B., 72
A. M., 394
A. N., 356
B. D , 246
E. D., 197
H. B., 159
J. B., 170
J. E., 402
J. J. M , 275
M., 356
P. E., 247
R. M., 332
T. B., 166
W. F., 181
Shaxby, J. H., 237
Shea, Mrs. M. M., 320
S., 320
Shearer, C., 42
E., 275
G., 289
J. F., 283
W. J., 25
Shears, F. S., 125
Sheavyn, P., 188
Shebbeare, C. J., 194
Sheedy, G., 319
Sheen, A. W., 238
Sheldon, E. W., 331
F. H., 49

Shelley, H. J., 183
J., 460
Shellshear, J. L., 568
Shembavnekar, K. M., 517
Shennan, T., 266
Sheo-Prasad, 547
Shephard, C Y., 417
Shepherd, D. B , 37
E. F. S., 496
F., 150
Shepherdson, J. F , 54
Sheppard, E. M., 237
J. T., 50
N. E., 402
W. R., 97
Sher Ali, 551
Sheridan, E., 315
Sherrard, G. O., 316
Sherren, J., 162
Sherriffs, W. R., 254
Sherrington, Sir C S , 194, 199
Sherwani, H. K., 550
Sherwood, E. T. G., 486
Shevde, S. V., 516
Shimeld, J. E., 246
Shimmin, A. N., 81, 86
Shine, J., 315
Shipley, Sir A. E., 41, 47, 417
C. M., 76
J. W., 366
Shipp, G. P., 441
Shipway, F. E., 154
Shirlaw, M., 272
Shirley, H. J., 154
Shirras, F. E. F., 127
Shivers, M. E , 560
Shiveshwar Dayal, 558
Shiv Ram Kashyap, 553, 556
Shoesmith, J. B., 270
Shore, L. E., 45, 52
L. R., 154
T. W., 164
Short, A. R., 35, 37
W., 333
W. F , 462
Shove, G. F., 43, 48, 50
H. W., 462
Shovelton, S. T , 124, 126, 153
Showan, P. B., 125
Shrewsbury, J. F. D., 27, 95
Shrivastava Hiralal, 546
Shrivastava, K. P , 546
Shrubsall, F. C., 159
Shrum, G. M., 339
Shu, C. C., 145
Shufflebotham, H. N., 23
Shukla, D. P., 508
P. A., 548
Shutt, D. B., 373
W. J., 91
Sibbald, A. S., 394
Sibgatullah, M., 551
Sibly, T. F., 225, 240
Sibree, E., 35
Siddiqui, A., 527, 530
M. Z., 534
Sidebotham, E. J., 182
Sidey, T. K, 456
Sidgwick, N. V., 191, 199
Sidhanta, N. K., 534
Siedeberg, E. H., 456
Siemiewicz, T. D., 344
Sierra Leone, Bishop of, 65
Sifton, H. B., 398
Sikes, E. E., 52
Silberbauer, S. F., 473
Silberberg, M. D., 433
Silcox, A , 80
Sillick, W. E. G., 132
Sills, H. H., 50
Silver, L. M., 344
Silverthorn, G., 404
Silverton, R. J , 440, 444
Simard, E. T. A., 351
G., 384
H., 349, 350
Simms, F., 299
H , 182
Simon, Sir J. A , 197
Simons, L., 138
Simonsen, J. L., 563
Simpson, A. A , 507
D. C , 196, 200
F. A., 53
G , 221
G. C. E., 96, 100
G. W., 394
H. C., 400
H. M., 413
J. C., 356
J. C., M.B., 275
J. S , 251
J. Y., 271
L. E., 24
M. C , 294
P., 192, 200, 201
R. K. M., 568
R. M., 369
T: B., 273
W. B., 444
W. D., 265
Sir W. J. R., 129, 157
Simpson Wells, A., 474
Sims, J. W., 131
Simson, F. W., 220
Sinclair, A. H. H., 273
J., 218
J. D., 524
J. H., 289
R. D., 330
S. C. C., 457
T., 298
T. A., 254
T. W., 433
Singer, C., 119
Singh, B. K., 557
Dongar, 513
G., 556
Gurmukh, 513
Harnam, 555
H., 555
Single, H. S , 559
Singleton, F. A., 431
Sinha, A. B. P., 558
B., 514
B. C., 558
C. C., 557
H. N., 547
J. C., 527
P., 523
Sinha, S. C , 524
Sircar, A. C , 527
A. P , 511
H., 528
K. M , 507
M. K., 555
Sir N., 520
Siret, A., 533
Sirois, J., 350
Sisson, C. J., 118, 123
Sissons, A. T., 434
C. B., 401
Sitaram, 532
Skae, F. M. T., 293
Skeats, E. W., 431
Skeel, C. A. J., 151
Skelton, Dean, 390
Skene, MacG., 264
Skerritt, J. H., 221
Skillicorn, A., 69
Skinner, E. F., 220
F., 34
H. D., 456
J., 63
S., 171, 173
Skipworth, M. G., 202
Skirving, A. A. S , 274
Slack, J. A., 413
S. B., 362
Slater, D. A., 91
F. P., 188
G., 140
J. M. W., 54
Sleeman, C. M., 45, 51
J. H., 150
Slepchenko, B. S , 94
Slesinger, E. G , 162
Slesser, Sir H. H., 168
Slessor, A. K., 198
Sloss, D. J., 559
Small, W. M., 483
Smailes, R., 539
Smails, R. G. H., 386
Small, A. J., 282
J., B.Sc., 282
J., D.Sc., 299, 302
J. G., 246
W., 274
Smalley Baker, C. E., 25
Smart, E. H., 138
J. S., 288
W. A. M., 161
W. M., 42
Smeal, G., 83
Smeaton, B., 427
Smedley, N., 566
Smellie, J. M., 27
Smevoordie, A., 39
Smiles, S., 124
Smiley, M. T., 100, 117
Smith, A., 349
Annie, 236
A. E. C., 254
A. E. H., 176
A. H., 200
B. T. D., 52
C. A. M., 568
C. F., 283
C. G., 518
C. J., 219

Smith, C. J., Singapore, 567
C. R., 152
D. K., 404
David, 284
Dempster, 183
Donald, 444
Drummond, 142
D. N., 192, 199
E., 156
E., B.Litt., 250
E. A., 399
E. B., 246
Egerton, 525
E. C., 333
E. C., M.B , 311
E. M., 97
Frank, 76
F. B., 43, 48
F. H., 152
F. J., 254
F. W., 170
G., 94
G., LL.D., 263
Sir G. A., 263
G. B., 159
G. E., 116
G. F. D., 159
G. F. R., 97
G. G., 298, 299
G. L. M., 274
G. M., 401
G. O., 399, 406
H., M.A., 152
H., M.D., 473
H., Ph.D., 282, 286
H. A., 358
H. B., 333
H. Bompas, 177
H. G., 135
H. T., 90
J., A.M.I.M.E., 289
J., 270
J. A., 193, 199
J. F., 284
J. G., 24
J. H., 120
J. H., D.Sc., 301
J. J., 488
J. L., 274, 276
J. L. B., 483
J. L. S., 270
J. MacG., 330
J. W. D., 281
J. W. N., 568
K. M., 180
L., 564
L. A., 159
May, 140
Muriel, 293
M. S., 54
N., 176
N. J. G., 264
N. K., 269, 272
P. W., 170
R. C., 273
R. C., Ph.D., 281
R. P., 72
R. R., 336
R. T., 171
R. W., Ph.D., 364
Smith, S., B.Sc., 332
S., D.Sc., 34
S. A., M.B., 440
S. A., M.D , 238
S. B., 533, 534
S. C. Kaines, 47
S. E., 347
S. L., 131
S. M., 162
S. P., 289
S. W. J., 26
T. B., 217
V. C., 449
W., 116
W. A., 460
W. Erlam, 538
W. H., D.D., 339
W. H., M.D., 370
W. J., 288
Winifred J., 294
W. Owston, 557
W. W., 270
Smither, W. J., 399
Smyly, J. G., 304, 305
Smyth, C. H. E., 48
J., LL.D., 360
J., M.A., 431
L. B., 306
Smythe, H. J. D., 36
J. A., 77
Snape, A. E., 472
Sneeden, O., 289
Snelgrove, E. C., 218
Snell, F. M., 480
J. F., 357
Snow, G. R. S., 199
Soal, S. G., 136
Soares, A. X., 516
Soddy, F., 191, 198
Soderblom, N., 311
Sogani, C. M., 513
Sola, M., 517
Sollas, W. J., 192, 201
Solomon, L., 117, 119
Soltau, R. H., 82
Somalwar, S. G., 548
Somerset, H. V. F., 201
Somervell, D. B., 197
Sommerfeld, H. B., 368
Sommerville, D., 129
D. M. Y., 464
J. B., 290
Sonaullah, Md., 524
Sondhi, G. D., 553, 556
Sonet, E , 331
Soothill, W. E., 195
Soper, F. G., 233
Sorley, W. R., 45, 50
Soutar, G., 293
Souter, A., 264
South, Mrs. J., 368
Southerns, L., 219
Southgate, H. W., 220
Southwell, T., 93
R. V., 53
Southwood, A. R., 427
Southworth, W., 368
Souttar, H. S., 162
Sovani, V. V., 511
Soward, F. H., 338
Sowerbutts, J. A., 171
Sowerby, A. L. M , 117
Spaar, E. C., 565
Sparks, J. F., 388
Spary, P. G., 255
Spath, L. F., 137
Spaul, E. A., 138
Speakman, H. B., 398, 404
J. B , 86
Spear, R., 473
T. J. P., 531
Spearman, C., 119
Speers, P. C., 555
Speight, E. E., 450
R., 460
Spence, J. C., 72
W. J., 366
Spenceley, J. A., 413
Spencer, A. V., 198, 200
G. J., 339
J. F., 147
R. A., 394
W. G., 162, 170
Spens, J., 202
W., 48
Sperrin-Johnson, J. C., 462
Spicer, E. C., 251
W. T. H., 160
Spidle, S., 328
Spiers, V., 125
Spiller, R. C., 193
Spilsbury, Sir B. H., 155
Spink, H. M., 77
Spinks, G. T., 33
Spitta, H. R. D., 157
Spittel, R. L., 566
Spittle, J. T., 51
Spokes, P. S., 192
Spooner, A. R , 522
Sprague, E., 117
Sprawson, E. C., 163
Sprott, W. J. H., 247
Sproule, G., 358
G. A , 368
W. S., 432
Spurgeon, C., 147
Spurway, J., 243
Squire, E. A., 50
Sri Ram, 532
Sri Rukminiamma, K. D., 542
Srikantia, B. M., 542
Srinavasa Rao, 542
Srinivasiah, M., 563
Srivastava, P. L., 508
R., 535
S. R., 535
Stable, J. J., 437
Stacey, J. E , 220
Stacy, B. V., 447
Stafford, J , 362
S., 480
Staig, R. A., 284
Staines, H , 152
Stallybrass, C. O., 95
W. T. S., 189, 194, 197, 200
Stammers, A. D., 493
A. F., 27
Stamp, L. Dudley, 560
Stampa, L., 198

Stanaway, E. A., 438
Staniland, L. N., 33
Stanley, C. W., 355
D., 27
G. H., 492
Stanners, R. W., 44, 49
Stansfield, A., 358
E., 333
H., 255
Stanton, B. L , 433
Stapledon, R. G., 229
Stapleton, H. E., 523
Starkey, T. A., 359
Starkie, W. F., 304, 307
Miss, 244
Starling, S. G., 171
Starr, C. L., 405
F. N. G , 405
Start, L. E., 177
Statham, I. C F., 218
R. S. S., 36
Staveley, M. C., 32, 34
Stead, G , 46, 54, 161
Stebbing, E. P., 271, 279
L. S., 148
Steck, F. W., 486
Stedman, E., B Sc , 270
Ellen, 270
Steel, A. B., 48
G. S., 293
M. J., 254
Steel-Maitland, Sir A., 139
Steele, B. D., 437
E. S., 293
J., 145
L., 510
R. M., 425
S., 460
Steen, S. W. P., 48, 272
Steenkiste, J., 539
Steer, P. W., 116
Steers, J. A., 49, 51
Stefansson, J , 370
Steggall, J. E. A., 292, 294
Stegmann, E. T., 489
Stehle, R. L., 359
Steichen, A., 517
Stein, H. B., 523
Stenning, J. F., 195, 199, 201
Stenton, Mrs. F. M., 251
F. M., 251
Stephen, H., 520; (S Af.) 491
Sir H. L., 145
Stephens, A. C., 456
E. L., 471
G. A., 37
J., 382
J. O., 226
J. S., 25
J. W. W , 96
M., 299
Stephenson, G., 316
G. H., 415
G. V., 298
H. K., 217
J., 272
T. A., 120
W. T., 141
Steppat, J., 125
Mrs. M. A. A., 170
Sterling, T. S., 504, 523
Stern, W. J., 130
Steuart, E. M., 270
W., 493
Steven, A. B., 289
Stevens, A., 282
A. J., 52
T. G., 159
T. S., 281
W. M., 237
Stevenson, A. F. C., 402
F. A , 357
G. H., 201
G. H., M.B., 285
J., 364, 365
J , B.Sc., 289
W. B., 282, 286
W. H., 215
W. H. W., 438
Steward, F. J., 162
G. C., 49
Stewardson, E. A., 93
Stewart, A. D., 523
A. W., 299
S. A., 219
C. P., 270
D., 175
D., M.A., 86
D. A., 369
D. S., 271
D. W., 24
E. C., 281
F. R., 264
G. S., 472
H., 460
H. F., 44, 53
H. L., 343
H R., 555
I. S., 266
J., 344
J. A., 193, 198
J. C., 336
J. D., 442
J. McK , 426
L. B., 404
L K., 401
M. J., 84
Mrs., 84
T. G., 172
W. S., 82
Stiles, Sir H., 279
W., 250
Still, C. J., 301
G. F., 156
Stirling, J., 91
Stiven, D., 294
Stobie, H., 164
Stock, W. S. V., 33, 36
Stockdale, H. F., 288
Stockenstrom, E. C., 488
Stocker, W. N., 197
Stockley, W. F. P., 318
Stockman, R., 284
Stocks, E. V., 65, 68
J. L., 179
P., 118
Stoddart, W. H. B., 159
Stoker, H. G., 481
Stokes, A., 160
P. S., 221
Stokoe, F. W., 48, 50
Stone, C. G., 197
E. R., 567
L. W., 137
W. A., 564
Stonedale, B., 202
Stoneley, R., 83
Stoneman, B., 480
Stoner, E. C., 83
Stoney, G G., 183
Stopford, J. S. B., 175
Stops, W. J. T., 448
Storey, J. C., 440
Storms, L. B., 456
Storrow, B , 77
Stott, A. W., 159
H., 533
Stoughton, A. A , 366
Stout, A. K., 233
G. F., 294
Strachan, G. I., 238
J., 80
L. R. M., 25
R., 517
Strachey, J. P., 42, 54
Strahan, J. A., 300
Strang, J. A., 534
Strangeways, T. S. P., 46
Stratton, A., 116
F. J. M., 49
Straw, S. H., 178
Streatfeild, F. H., 170
Street, K. W., 443
R. O., 93
Streeter, B. H., 200
Strickland, E. H., 331
Stringer, L. A., 460
Strong, Sir A., 425
A. G , 456
J., 81
Stroud, H., 72, 77
S. H., 443
Struckmeyer, O. K., 53
Struthers, J. W., 274
R. R., 359
Strzygowski, J., 123
Stuart, A., 240
A. M., 265
Hon. C. A., 330
W. J., 274
Studer, P., 194
Sturt, H., 202
M., 69
Subba Rao, B., 546
M. V. N., 539
N. S., 504, 542
P., 540
R., 550
Sublet, F. G. A., 431
Subotic, D., 127
Sucksmith, W., 35
Sudmersen, F. W., 525
Sueyras, M., 299
Sufi, G. M. D., 530
Sugars, R. M., 355
Sugden, E. H., 434
J. H., 237
J. N., 131
R., 431
S., 137

Sukul, C. M., 513
Sullivan, B., 403
C. T., 356
E., 413
W. C., 159
W. G., 393
Sully, T. D., 509
Sultana, A., 498
Summerby, R., 357
Summers, H. St. J., 431
P. F., 85
W. C., 217
Summons, W. E., 431
Sumner, B. H., 197
C. L. H., 509
W. L., 254
Suntharalingam, C., 564
Sur, N. K., 508
Surerus, J. R., 401
Surey, L. S., 547
Suriyagoda, S. S., 564
Suru, N. J., 518
Surveyer, E. F., 358
Susman, W., 181
Sutcliff, A. R., 456
Sutcliffe, D., 25
Sutherland, A., 328
C., 294
D. S., 181
D. W., 555
G. F., 443
G. J., 430
I. L. G., 464
J. R., 282
J. W. R., 559
L. R., 295
M. M. J., 288
P. L., 84
Sutton, G. W., 131
H, 442
J., 425
W. G. L., 230
Swain, H. J., 443
I., 318
L. M., 54
Swainson, W, 263
Swaminatha Pillai, S, 540
Swan, H. M., 301
R. R., 369
Swann, M. B R., 46, 49
Swanson, W. W., 393
Swanwick, K. Ff., 437
Swart, D. B., 473
Swayne, W., 39
Swedelius, Prof., 365
Sweeney, G. W., 481
Sweet, G., 433
Swift, B. H., 426
E. W. D., 473
H. W., 82
Mrs. H. W., 83
Swinnerton, H. H., 247
Swinton, Sir E. D., 193, 197
Sword, J., 281
Sykes, J. G., 85
J., 243, 245
N., 126
W. S., 85
Syme, W. S., 285
Symes, J. O., 36
Symes, T. E., 243
W. L., 161, 172
Symmers, W. St C., 300, 302
Symons, H. W., 84
N. J., 343
Synge, J. L., 304, 306

Tabor, R. J., 136
Taggart, P., 91
Tagore, A. N., 520
Taig, T., 240
Taimini, I. N., 507
Tait, A. J., 59
J., M.A., 178
J, M D., D Sc., 356
M. D. C., 386
W. D., 356
Takakhav, N. S., 517
Takle, L. Ag, 546
Talbot, E. M, 191
P. R., 332
R., 350
Talukdar, T. N., 557
Taluqdar, J. C., 509
Tamaskar, G. D., 547
Tamblyn, W. F., 413
Tamhankar, G. R., 546
Tannan, M. L., 517
Tanner, J R, 52
Tanquerey, F. J, 137, 297
Tapa, J., 500
Tappan, M., 54
Taqui, S. G., 546
Taraporewala, I. J. S., 520
Tarkabhusana, M. P., 513
Tarrant, A. G., 171
D., 147
Taschereau, R., 375
Tasker, R. B., 81
D. G. C., 37
Tassé, A, 384
Tate, E., 71
F, 455
G., 555
H., 356
J, 299
Sir R. W., 304, 305, 306
Tatlow, W., 305
Tattersall, G, 450
W. M., 237
Tawney, R. H., 140
Tawse, W. J., 357
Taylor, A. B., 79
A. E., 272
A. L., 36
A. L., M.B., 84
A. S., 461
C., 473
D. G., 236
E. G. R., 137
F. A., 198
F. E., 129
G., 434
G. B., 332
G. I., 53
H., 250
H. M., 53
J., C.B.E., 172
J., M.A., 316
John, D.Sc., 318
Taylor, John, M.D., 292, 295
J. G, 473
J. R., 81, 86
K. W., 364
M., 33
M. A., 523
M. E. J., 150
N. B., 403
R., 399
R. B., 386
T. G, 441
T. H., 81
T. W. J., 191, 197
W, 179
Sir Wm., 307
W. D., 264
W. E, 406
W. R., 402
W. W., 272
Teacher, J. H., 285
Teago, F. J., 95
Teale, F. H., 160
Teece, L. G., 440
Tees, F. J., 360
Telang, H. K. S, 548
P. K., 513
Telfer, S. V., 285
W., 48
Telford, E. D, 181
Telling, W. H. Maxwell, 84
Tempany, Hon. H. A., 496
Temperley, H. W. V., 44, 51
Templeton, G. A., 444
J., 69
Ten Broeke, J., 364
Tennant, F. R., 53
J. S., 464
Tennent, R., 284
Ternouth, E. J, 251
Terrey, H., 117
Terry, C. S., 265
Mrs., 147
Tessier-Lavigne, Y., 374
Tetley, U., 81
Tetreault, A., 376
Tew, W. P., 414
Tewari, I., 513
K. L., 513
N. K., 513
Thacker, C. R. A, 52
Thadani, N. V., 531, 532
Thakur, A. D., 535
Singh, 532
Tham Ying Khow, 567
Thanavala, Y. D., 516
Thapar, S. G. S., 535
Thatcher, L., 273
P., 472
R. S., 171
W. S., 42, 53
Thatte, V. N., 548
Theakston, H. R., 342
Theiler, Sir A., 486
Theobald, F. V., 143
G. W., 84
Theodore, S. J, 538
Theodosius, H. G., 65
Thickett, J. H., 558
Thierry, E. H., 117
Third, J. R., 388

Thirkill, H., 45, 48
Thoday, D., 232
Thom, A , 282
Thomas, A. B., 229
A. S , 252
F. G., 77
F. W., 119, 120
G. H , 569
H. H., M.A., 43, 48
H. H., LL.D., 93
J. O., 225
J. S , 471
J. W. T., 238
L., 344
L. R., 448
M., 75
Miss M., 233
M. B., 54
P. G., 147
P. J., 564
P. S , 241
R., 236
R. A., 97
R. R., 525
S , 236
T., 100
W , M.P.S , 36
W , M Sc , 264
W. D., 240
W E., 463
W. N , 192
Thompson, A. H , 47, 82
A. M., 355
A. R., 162
C. D., 508
C. H., 200, 201, 202
C. N., 472
D. W., 367, 373
D'A. W., 294
E. G., 248
E. J., 195
F. C., B Sc , 179, 182
F. C., M Sc., 86
G. E., 457
H., 80
H. S., 450
H. T., 156
H. W., 235
I. McL., 354
J., 252
J. G., 355
J. H., 80
J. M., 199
J. McL., 91
J. R., 218
Miss M., 483
P. F., 432
R. C., 199
R. D., 450
R. R., 354
S., 414
S., M.B., 71
W. E., 343
W. H., 328
W. P., 393
Thomsett, B., 183
Thomson, A , 190, 198
D., 525
G., 289
George, 283
Thomson, G H , 79, 271
G K., 345
G P., 48
G. P , Aberdeen, 265
G. R , 493
H., 426
H. J , 233
H. N., 338
J., 281
J. A., 265
J. A. K., 124
J. E., 402
J. G , 161
Sir J. J , 41, 45, 52
J. N., 281
J. O., 24
J. S., 180
L. R., 354
R. B., 398
R. F., 129
T , 233
W., 294
Sir W., 491
W. A., 368
W. W. D , 300
Thon, V. Po , 560
Thorburn, J. M., 237
W. S., 85
Thorne, H. H., 442
P. C. L., 170
Thorneycroft, F. J., 137
G., 202
Thornley, I. D., 118, 123
Thornton, A. W., 357
J. C., 203
W. M., 76
Thorpe, J. F., 131
L., 234
Thorson, J. T., 371
Thorvaldson, T., 393
Thouless, R. H., 47, 179
Threlfall, H., 183
Thrift, H., 304, 306
W. E., 304, 305, 306
Thring, D. T., 196
Thursfield, J. H., 156
Thynne, A. J., 437
Tidy, H. L., 159
Tiegs, O. W., 429, 433
Tier, W., 367
Tierney, M., 314
Tietz, H., 471
Tilley, A. A., 50
C. E., 45
H., 157
Tillmann, W. J., 415
Tillyard, E. M. W., 50, 52
F., 24
H. J. W., 26
Tilsley, H , 183
Timmins, L. P., 25
Tin, Pe Maung, 560
Tincker, M. A. H., 229
Tingle, C. D., 220
Tinkler, C. K., 127
Tippett, L. S. C , 445
Tirmizy, M. H., 517
Titchmarsh, E. C., 119, 199
Titterton, C. H., 152
Tiwari, S. G., 508
Tobias, I., 473
Tocher, J. F., 265
Tocker, A. H., 460
Tod, C. C. J., 200
M. N , 191
Todd, A , 252
A. T., 36
E. W., 342
F. A., 441
G. W , 72, 77
H., 35
J. B , 271
J. E , 299, 302
J. P., 290
O. J., 337
R. H., 443
Tolkien, J. R. R., 82, 190
Tomkieff, S., 76
Tomlin, J. W. S., 32, 35
Tomlinson, A., 432
H., 42, 49
H. B , 464
H. J., 255
Mme., 77
Tonks, H., 116
Tooke, F. T., 359
Tooley, M. J., 148
Toomer, J. E., 400
Toothi, N. A., 515
Topalian, S., 145, 146
Topley, B., 81
W. W. C., 182
Torrens, J. A., 159, 167
Tory, H. M., 330
Tostevin, F. P., 547
Tottenham, R. E., 569
Totton, J. H., 300
Toupin, J. R., 376
Tout, T. F., 178, 187
Tovey, D. F., 272, 276
Townend, H., 263
Townrow, V., 220
Townsend, H., 180
J. S. E., 194, 200
W. G., 450
Toynbee, J., 250
Tozer, F. M., 93
Tracy, F., 402
H. L., 366
Traquair, H. M., 273
R., 354
Treadgold, W. M., 404
Trease, G. E., 247
Treatt, V. H., 443, 444
Tredennick, G. H. P. P., 217
Tregidgo, W. M., 65
Tregoning, A. C., 431
Treharne, R. F., 178
Trelfold, W. G., 406
Tremain, C. P., 232
Tremblay, A., 350
Trench, W. Fitz J., 306
W. L. C., 518
Trenery, G. R , 92
Tress, H., 127
Treston, H. J., 318
Tretheway, W. H., 413
Trevelyan, G. M., 196
Tribe, M., 127
Trigge, H. H., 438

Tripathi, R P., 508
Trist, J. R. R., 36
Tritton, A. S., 505
Trivedi, A. K., 516
T. P., 517
Trofimov, M. V., 180
Tromp, F. J., 486
Trotman, S. R., 246, 247
Trott, L. W., 427
Trotter, R., 387
W. B. L., 162
W. F., 218
Troup, Sir E., 124
R. S., 192, 201
Trout, A. M., 255
Trow, A. H , 235
Trudeau, R., 376
Trueman, A. E., 240
G. J., 380
Trumble, H. C., 433
Truscott, S. J., 132
Truslove, R., 204
Tryhorn, F. G., 217
Tuck, H. P., 448
W. B., 155
Tucker, L. N., 415
S. H., 281
Tuckett, W. J., 92
Tuckfield, W. J., 434
Tudhope, G. R., 295
Tuke, M. J., 147
Tuller, A. P., 328, 329
Tullis, J., 558
Tulloch, W. J., 294
Tulpule, G. V., 518
Tun-Pe, Mg., 560
Tunnicliffe, F. W., 159
H. E., 49
Tunstall, B. M., 135
N., 230
Tupper-Carey, R. M., 81
Turberville, A. S., 233
Turcot, E., 351
Turley, G., 69
Turnbull, G. H., 218
H. H., 433
H. M., 155
H. W., 294
J. M., 338
M. I., 456
Turner, B. W., 447
C. H., 196, 199
E. E., 135
E. G., 217
E. O., 382
F. C., 218
F. M. C., 50
G. C., 171
G. G., 72
H. H., 191, 200
H. P., 175, 179
H. W., M.A., 34
H. W., M.R.C.S., 163
J. G., 163
J. W., 77
J. W. C., 53
L. B., 50
P., 162
P. E., 417
P. J., 354
Turner, R. L., 146
T., 25
T. H., 25
W., 162
W. A., 159
W. E. S., 219
W. G., 360
Turquet, Mme., 151
Turrell, W. J , 195
Turville, A. D., 413
Tutin, F., 33
Tuttle, A. S., 333
Tweedie, W. M., 380
Twemlow, J. A., 93
Twort, F. W., 105
Tylecote, F. E., 181
Tylor, T. H., 197
Tyndale, O. S., 358
Tyndall, A. M., 35
Tyrrell, G. W., 282

Uclow, W. L., 338
Ullah, Wali, 514
Ullo Xuereb, G., 498, 499
Ulrich, E. D., 430
Underhill, F. H , 394
A. B. G., 163
A. C., 82
F., 247
Unstead, J. F., 137
Unthank, H. W., 244
Unwin, G., 188
R., 559
Upadhyaya, A. S , 514
B., 513
Upjohn, W. G. D., 433
Ure, A. D., 250
P. N., 250
S. G. M., 131
Urquhart, A. L., 155
F. F., 193, 197
W. S., 524
Usher, F. L., 542
Uys, C. G., 485

Vachon, A., 349
Vadboncœur, E., 377
Vaillancourt, J., 351
Vaish, B. L., 509
R. K., 511
Vakil, C. N., 515
Valentine, C. F., 402
C. W., 24
Valentine-Richards, A. V., 48
Valette, A., 178
Valin, N., 376
Vallée, A., 351
Vallette, J., 77
Van Braam, P., 488
Van Druton, J. W., 230
Van Every, J. F., 400
Van Heerden, J. S , 482
Van Horn, C. E., 561
Van Niekerk, L., 488
Van Patten, N., 386
Van Rooy, D. J., 482
J. C., 482
Van Rooyen, E. E., 489
J. H., 479
L. A., 485
Van Rossum, Cardinal G., 374
Van Themaat, H. V. L., 489
Van Tonder, A. J., 484
Van Wageningen, G., 482
Van de Koppel, L. H , 480
Van der Brugge, H. W. J., 491
Van der Byl, P. A., 488
Van der Merwe, C. D., 488
I. W., 473, 488
P. J., 492
Van der Riet, B. de St. J., 488
v. d. Lingen, J. S., 472
V. d. Walt, N. H., 482
Vance, W. H , 339
Vango, H. M , 332
Vanier, G., 375
Varder. R. W., 484
Varki, A. M., 538
Varma, D., 508
G. C., 513
P. S , 513
S. C., 508
Vassallo, E., 498
E. C., 498
Vaucher, P., 118, 139
Vaughan, F. M., 177
Vaughan-Sawyer, Mrs., 156
Vazifdar, S. S., 516
Veal, T. H. P., 24
Veale, E. W. W., 34
H. P., 484
R. A., 85
Veglia, F., 486
Veitch, Mrs , 54
G. S., 92
Velankar, H. D., 517
Vellacott, P. C , 51
Vellani, R. B., 516
Velte, F. M., 555
Venkannaia, T. S., 543
Venkatakrishna Iyer, L., 540
Venkatarama Ayyar, V. R., 539
Venkataratnam, R., 537
Venkatesachar, B., 543
Venkatesvara Ayyar, 542
Venkateswara Aiyar, V. R., 538
Venkateswaran, R., 559
Verma, A. C., 547
A. N., 531
Verner, L., 376
Vernon Jones, V. S., 50
Véronneau, A , 384
Verscheldon, L., 377
Versey, H. C., 82
Verville, E., 384
Vesey, W. T., 49
Vessot, C. U., 358
Vézina, C., 351
J., 350
Vial, F. G., 336
Vicars, J., 443
Vick, R. M., 162
Vickers, D., 217
H., 337
K. H., 254
W., 218
Victorin, M., 374
Vidyabinod, N. L., 524

Viljoen, P. R., 486
Vilkansky, Mg., 497
Villard, P., 355
Villasante, J. M., 127
Villeneuve, R., 384
Vinauer, E., 199
Vinayakam Pillai, S. A., 564
Vincent, S., 161
W., 220
Vincenti, R., 498
Vines, H. W. C., 48, 54
Vining, C. W., 84
Vinogradoff, Sir P., 195, 198
Vint, J., 35
J. W., 300
Vinycomb, T. B., 172
Virolle, E., 374
Viswanathan, P. S., 534
Vocadlo, O., 127
Voelcker, A. F., 156
Vogan, H. J., 442
Vollum, R. L., 195
Von Bonde, C., 473
W., 479
Von Wyss, C., 144
Vonwillier, O. U., 442
Voss, V., 486
Vost, J., 282
Voyer, O., 384
Vroom, F. W., 347
Vulliamy, E. O., 50, 51
Vyas, B. N., 533

Wace, H. C., 197
Waddell, W. G., 76
Waddington, S. P., 171
Waddy, R. G., 444
Wade, H., 274
I., 413
J. O. D., 238
Wade-Gery, H. T., 201
Wadham, S. M., 43, 54
W. J., 164
Wadia, A. R., 543
P. A., 517
S. M., 517
Wadiyar, Sri Narasimha Raja, 542
Wadsworth, T. W., 93
Wager, H., 81
Wagner, A. I., 491
Wagstaff, J. E. P., 69
Wagstaffe, W. W., 190
Wahhab, A. A., 527
Wahiduddin Salim, 550
Wahidur Rahman, 551
Wainwright, A., 358
Wait, Miss, 445
Waite, C. W., 218
Wakeling, G. H., 197
Walden, A. E., 517
A. F., 191, 200
Waldock, A. J. A., 441
Wales, the Prince of, 225, 243, 471
Waley, A., 145
Walford, F., 558
Wali Md., 535
Wali-ud-Daulah, 550
Wali Ullah, 514
Walker, A. H., 250
A. J., 243
A. R. E., 472
A. S., 343
A. S., M.D., 444
C., 26
C. E., C.A., 386
C. E., D.Sc., 93, 95
C. H., 36
E., 197
E. A., 472
E. M., M.A., 200
E. M., M.B., 398
E. W. A., 195, 201
F., 293
F. C., 338
G., 442
G. J., 228
Sir G. T., 130
Hilda, 26
Sir J., 270
J. I., 413
Sir J. W. T., 162
L., 300
M., 462
Miles, 183
M. L., 272
M. R., 425
Sir N., 269
N., 81, 86
N. T., 264
Nellie, 293
O. J., 330
S. B., 369
T. A., 51
T. K., 183
T. L., 402
W. J., 293
W. O., 364
Wall, A., 460
J., 48
R. C. B., 159
T. F., 218
W. G. P., 507
Wallace, Sir C. S., 105, 162, 167
G. A., 358
J. C., 49
J. M., 72
M. W., 400
R. C., 367
R. S., 431
T., 33
W., 171
W. B., 342
W. S., 397
W. W., 539
Wallas, G., 140
Waller, C. C., 414, 415
J. C., 93
R. D., 177
W. W., 93
Wallis, C. E., 163
C. S., 68, 69
F., 49
J. P. R., 485, 487
R. L. M., 155
T. E., 155
Walmsley, A., 178
C., 178, 180
Walmsley, T., 298
Walpole, V., 488
Walsh, A. L., 357
H. N., 318
J. B., 399
P., 312
T., 320
Walshe, F. M. R., 159
Walston, Sir C., 50
Walter, H., 355
Walters, C. F., 37
C. J. M., 447
W. C. F., 129
Walton, A. J., 162
C. L., 232
J., 176
L. B., 273
F. W., 124
Wand, J. W. C., 35, 200
Wang, C. Y., 569
Warburg, O., 497
Warburton, C., 46
F. T., 94
Ward, B. H., 464
E. H., 218
G. E. S., 159
H. B., 91
I. C., 119, 123
J., 63
J. T., 52
K. M., 560
Miss L. M., 246
S. B., 251
Wardale, Edith E., 203
J. D., 72
J. R., 48
Wardill, W. E. M., 72
Wardlaw, C. W., 281
H. S. H., 442
W., 23
Wardle, R. A., 180
Ware, W. M., 143
Waring, Sir H. J., 162
Wark, I., 441
Warmington, E. H., 125
Warner, N. W., 369
Warnock, F. V., 301
Warrell, A., 34
Warren, E., 481
Sir H., 189, 199
K. M., 151
L. A. H., 367
P. S., 331
S. H., 72
W. H., 447
Warriner, J., 171
Wartski, I., 145
Warwick, F. W., 316
W. T., 162
Washington, E. J., 369
Wasteneys, H., 398
Watchmaker, B. K., 547
Waterhouse, E. G., 442
E. S., 152
G., 305, 306
Sir H. F., 162
L. L., 441
O., 481
W. L., 440
Watermayer, G. A., 492

Waters, D. B., 457
E. G. R, 192, 198, 199, 202
J. J., 321
W. A. P., 194, 195
Waterston, D., 292
Watkin, E. E., 230
E. L., 255
H. G., 97
M., 236
Watkins, A. E., 52
S. H., 243
W. G., 247
Watkins Pitchford, W., 493
Watkinson, W. H, 94
Watson, A., 254
A. M., 283
A. P., 275
B. P., 274
C. F. K., 476
C. T., 221
D., 285
D. C., 274
D. M. S., 120
E. M., 414
E. W., 196, 197, 224
F. S., 246
F. R. B, 37
G. A., 96, 98
G. G. G., 464
G. N., 25
G. W., 84
H. B., 233
H. E., 563
J., 390
J. A. S., 195, 201
J. M. R., 247
S. W., 484
W., 290
W. G., 380
W. H., 272
W. J., 270
Watson-Williams, E., 36
Watt, A. H., 493
A. S., 264
G. V., 85
H., 271
H. J., 288
J., 524
J. C., 49
J. C., M.D., 397
J. M., 493
R. D., 440
Watts, P. R, 441, 443
W. W., 131
Waud, R., 414
Waugh, G. E., 172
O. S., 370
R. T., 359
T. R., 356
W., 413
Waygood, O. C., 95
Wazalwar, A V., 546
Weatherbe, P., 344
Weatherburn, C. E., 461
Weaver, J. R. H., 201
W. G., 472
Webb, A E., 118
A. H., 132
C. C. J., 196, 200
Webb, C. D., 125
C. H. S, 162
G. R., 304
H. A., 48
H. P., 382
H. R., 331
J. J., 314
J. S. W., 432
R. R., 52
Rt. Hon S., 140
Webb-Johnson, A E., 162
Webber, W. J., 232, 402
Webster, A. B., 292, 293, 295
A. E., 405
C. K., 230
F., 94
J. E, 244
J. H. D., 161
J. S., 567
W., 370
Wedd, N., 50
Wedderburn, E. M, 273
Wedgwood, G. A., 135
Weehuizen, P. B., 484
Weekes, G. A., 41, 52
L. M., 72
Weekley, E., 247
Weightman, F. N., 75
Weinbrenn, B., 494
C., 493
Weir, A. R., 393
G. W., 339
J., 358
J. A., 331
J., M.A., 282
J. B., 555
J. C, 508
T. H., 281
Weiss, F. E., 176
Weitzmann, M., 497
Welbourne, E., 49
Welch, A. C., 271
J. J., 66, 77
Welchman, W., 494
Weld, H., 145
Weldon, J. W., 358
T. D., 199
Welford, A. W. B., 137
Welinkar, N. G., 550
Weller, E. P., 33
F. C., 56
Wellings, A. W., 27
Wellington, H. L., 33
J. H., 492
Wellish, E. M., 442
Wells, A. K., 125
F. A., 247
G. A., 371
G. J., 135
J., 85
J., M.A., 189, 190, 201
R. B., 332
Welpton, W. P., 81
Welsh, D. A., 444
J. J., 54
Welty, E. J., 401
Wemyss, H. L. W., 274
Werner, A., 146
E. A., 305
L., 315
Werner, M, 146
Wesley, R. W., 404
Wessels, D., 486
West, C. M, 307
F. L., 380
G., 293
J., 232
J. W., 163
M. P., 527
W., 270
Westermarck, E. A., 140
Westmacott, F. H., 180
Wetmore, R. H., 328
Wetton, H. D., 171
Whale, P. B., 24
G., 236
Whaley, O. H., 69
Wharton, J, 181
L., 127
Wharton-Wells, H., 171
Whatmough, J., 233
Wheatcroft, W. H., 48, 52
Wheatley, J., 123, 472
Wheeler, A. E., 80
D, 366
O A., 188, 236
R. V., 219
Wheelock, F. E., 328
Wheldon, R. W., 75
W. P., 232
Whetham, W. C. D., 45, 53
Whetnall, E. M. M., 54
Whetton, J. T., 77
Whibley, L., 51
Whidden, H. P., 304
Whiddington, R., 83
Whillis, J., 71
S. S., 71
Whipple, F. I. W., 130
Whitaker, H., 81
H. A., 94
J. W., 247
Whitby, G. S., 355
L. J., 151
White, A. C., 274
A. K., 283
C. F., 94
C. M., 125
C. P., 180
E., 431
E. B. C., 36
F. D., 366
F. P., 52
H. J., 189, 197
H. M. O, 218
H. V., 179
J. F. D., 460
J. H., 400
J. L., 170
J. R., 458
J. W., 33
N. J. D., 305
P. J., 233
R. G., 232
S. A. F., 126
W. H., 161
Whitehead, A. N., 53
F., 217
G., 182
H. R., 72

Whitehead, T., 232
Whitehouse, B., 27
R. H., 555
W. E., 230
Whiteley, M. A., 131
S., 483
Whitelocke, H. A. B., 195
R. H. A., 195
Whitfeld, H. E , 450
Whitfield, A., 156
V., 250
Whitham, E , 76
Whiting, C. E , 66, 68, 69
M. H., 160
Whitla, Sir W., 298
Whitley, E , 191
Whitnah, Mrs. M. P., 560
Whitnall, S. E., 354
Whitney, J. P., 43, 49
Whitson, T. B., 269
Whittaker, E. T., 272, 276
W. G., 77
Whittick, G. C., 76
Whitwill, G C., 34
Whyte, A. H., 73
H., 34
M. K. B., 457
W. H., 245
Whytlaw-Gray, R. W., 81
Wiber, F. H , 312
Wicht, W. F., 473
Wickens, G. W., 450
Wickendon, A. F., 131
Wickremasinghe, M. da Z , 146
Widdicombe, J. H , 48
Widdows, S. T., 155
Widgery, A. G., 45
Wiener, W. T. G., 368
Wigginton, R., 219
Wigham, J. T , 307
Wightman, W. A., 81
Wignall, E. J., 135
Wilberforce, L. R., 93
Wilcken, J. A , 76
Wilcock, A. W., 179
Wilcocks, R. W., 489
Wilcockson, W. H., 218
Wilcox, F. H., 338
Wild, R. B., 181, 182
Wilde, J. H., 247
Wilgar, W. P., 386
Wilkie, D. P. D., 274
H. I., 69
Wilkin, F. A., 337
Wilkins, W. H., 191
Wilkinson, B., 243
C. H., 201, 212
F. C., 434
G., 220
G. L., 85
H. J., 440
H. S., 197
Sir Hiram S , 298
J. A., 491
L., 440
R. H. E , 175
R. N., 75
W. S., 434
Will, J. S., 400
Willan, H., 402
R. J., 72
Willcock, G. D., 150
Willcocks, G. C., 444
Willcox, Sir W. H., 155
Wille, G , 472
Willets, C. E., 348
Willett, J. H., 96
Willey, A., 357
B., 51, 54
Williams, A., 91
A. F. B , 271, 279
B , 362
C. A , 92
D., 225
D. O., 464
D. R., 230
D. T., 243
E. C., M.Sc , 117
E. C., M.D., 237
E. H., M D , 220
E. H., Ch.B., 457
E. L., 414
G. E. O., 163
G. J., 237
G. M., 394
H., Ph.D., 127
H., M.A., 147
H., M.D., 415
H. W., 94
Ifor, 233
Illtyd, 35
Ivor, 233
Sir J., 228
J. D., 228
J. Ll., 229, 230
J. W., 90
J. W., M.A., 293
Mrs., 148
Mary, 240
M. V., 491
M. Y., 338
N. P., 198, 200
N. T., 178
O. H., 96
O. T., 135
Rice, 232
Richard, 232
R. A., 299
R. D., 229
R. S., 252
S., 281
S. J., 445
W. E., 126
W. Ellis, 233
W. H., 448
W. J., 316
W. L. G., 356
W. N., 53
Williamson, A. R. B., 388
A. V., 82
G., 266
G. A., 266
G. S., 160
H. S., 192, 204
J., 297
J. W M., 483
O. K , 493
R. M., 266
R. S., 43
Williamson-Noble, F. A., 160
Willis, R. J., 176
Willmer, E. N., 179
Willmot, W. E., 406
Willoughby, L. A., 218
Wills, Sir G. A., 32
L. J., 25
W. K., 36
Wilmott, A. J., 137
Wilshere, A. M , 34
Wilsmore, N. T. M , 450
Wilson, A , 182
B. M., 93
C., 24
C. E., 146
C. McM., 159, 167
C. T. R., 45, 52
E., 125
F. H. H., 444, 445
F. J , 289
F. L., 337
F. P., B.Litt., 192, 201
F. P., M.A., 464
F. P., M.D , 95
G., 300
G. E., 343
G. H., 27
G. H. A., 48
G. S., 182
H. A., Ox., 199
H. A., 288
H. C., 430
H. E. C., 283
H. W., B.Sc., 431
H. W., M.B., 163
John, 273
J., Dublin, 316
J. C., 415
Sir J. C. D., 481
J. C. M., 95
J. D., 125
J. L., 553, 556
J. St. G., 96
J. T., 42, 52
Miss, 81
M., 244
M., D.Sc., 270
N. R., 367
Ross, 555
R., 240
R. A., 393
Miss R. M., 34
R. M., B.Sc., 143
R. P., 273
R. S. L., 331
S. A. K., 159
S. R., 179, 180
T. G., 426
T. H., 307
W., 148
William, LL.B., 273
W. A., 332
W. F., 71
W. J., 300
Wilton, J. R , 426
T. R., 95
Wimms, J. H., 170
Winchester, L., 92
Windeyer, J. C., 444
Windle, Sir B., 403

Winfield, G., 83
P. H., 50, 51, 52, 53, 54
Wing, J. C., 37
Wingate, H. F., 285
Winks, F., 220
Winslow, J. J. F., 382
V. L., 203
Winstanley, D. A., 53
L., 229
Winterbottom, J., 184
Winters, L. M., 394
Wippell, J. C., 65
Wishart, G. M., 283
Witchell, E. F. D., 131
Withers, J. J., 51
Withington, D., 178
Withycombe, C. L., 417
Witnah, C. H., 560
Wodehouse, H. M., 34
Wolf, A., 118, 132, 140
Wolfenden, E. J., 441
J. H., 197
Wolff, R., 471
Wollaston, A. F. R., 50
Wolstenholme, E. K., 440
Wolters, A. W. P., 251
Womersley, W. D., 46, 50
Wong, R. J., 568
S. Y., 568
Woo, A. W., 569
Wood, A., 45, 49
A. C., 247
A. H., 484
C., 45, 49, 53, 171
C. E., 23
C. T., 51
D., 37
D. J., 474
D. Orson, 120
Mrs. E., 434
Mrs. E. M., 250
F. G. C., 338
F. L., 445
F. M., 119
F. M., B.Sc., 358
G., W. Australia, 450
G. A., 442
G. L., 431
G. W., 368
J. F., 77
J. K., 183, 185
J. W., 85
L. M., 442
M. H., 59
P. F., 273
P. W., 49
R. C., 540
T., 198
T. B., 42, 49
W. H., 90, 188
W. Q., 275
Woodbridge, A. K., 243
Woodburne, A. S., 538
Woodbury, F. V., 345
K. F., 345
W. W., 345
Woodcock, H. M., 161
J. N., 399, 411
Woodger, J. H., 155
Woodhead, W. D., 355
Woodhouse, A. S. P., 367
D. L., 27
W. J., 441
Wood Jones, F., 425
Woodroffe, Sir J. G., 194
Woodruff, H. A., 433
Woods, A., 414
E., 394
H., 45, 49, 52
J. A., 97
Sir R. H., 307
W., 182
W. W., 155
Woodthorpe, Prof., 459
Woodward, Miss A., 229
E. L., 197, 200
R. C., 196
Woodwark, A. S., 159, 167
Wookey, G. E., 400
Wooldridge, G. H., 172
G. W., 125
Woollard, H., 116
Woolley, V. J., 161
Woolner, A. C., 553, 554
Worcester, W. G., 394
Wordie, J. M., 52
Worley, F. P., 462
Wormall, A., 83
Worrell, J. A., 411
Worsnop, B. L., 126
Worth, C. A., 172
Worthington, A. H., 175
Wortley, H. A. S., 246
Wragge, S., 76
Wreaks, J. H., 219
Wren, C. W., 509
H., 301
T. L., 119
Wrenn, C. L., 527
Wride, R. J., 415
Wright, Sir A. E., 160
A. J. M., 36
A. R. L., 450
B. A., 282
B. D., 243
C. A. H., 337
C. H. C., 398
C. W. B., 51
F. A., 137
F. H., 250
G., F.R.C.S., 181
G., 440
G. G. N., 248
G. M., 523
H. D., 155
H. G., 233
H. W., 367
J., 215
J. D., 177
J. G., 398, 410, 452
J. N., 294
K. M., 485
L., 241
N., 394
R., 281
R. E., 540
S. L. P., 293
T. G., 284
W., 155, 165
W. J. T., 399
Wright, W. S., 462
Wrigley, P. R., 181
Wrong, E. M., 199
G. McK., 401
H. H., 401
Wyatt, A. J., 48, 50, 53, 54
F. A., 330
H. G., 555
J. L., 47
R. B. H., 27
S., 179
T. C., 48, 53
W. F., 217
Wyld, H. C. K., 192, 199
Wylde, C. F., 359
Wylie, F. J., 211
J., B.A., 300
J., M.B., 285
J. K., 472
Wyllie, J., 143
Wynn, H. E., 51
W. H., 26
Wynn-Jones, Ll., 82
Wynne, F. E., 220
W. H., 388
W. P., 217
Wynter, W. E., 159

Yajnic, J. S., 513
N. A., 553
Yapp, R. H., 23
Yates, A. G., 220
Yeates, J. F., 301
T., 155
Yelle, E., 375
Yeolekar, T. G., 518
Yeoman, R. F., 343
Yewdall, A., 86
Yorke, W., 93
Yoshitake, S., 146
Youmans, R. W., 368
Young, A., 472
A., M.B., 285
A. H., 401, 411
C., 202
C. B., 532
C. L., 237
C. R., 399
D., 485
E., 491
E. G., 344
F. A., 369
G., 285
J., M.D., 273, 274
J., B.Sc., 26
J. B., 273
J. F. T., 367
J. S., 285
M., 182
Margaret, 271
P. C., 329
P. N. F., 531
R. A., 159
R. B., 492
R. F., 285
R. K., 398
S., 305
W. J., 432
W. M., 84
Younger, A. J., 283

Younger, J., 292
Yule, G. U., 46, 52

Zachariah, K., 523
Zafarul-Hasan, Syed, 506
Zafir, Abdul C., 47
Zamin Ali, Sd., 508
Zammit, C., 498
T., 498
Zamorska, W., 288
Ziegler, C. H., 49, 51, 53
Zimmer, A. R., 399
Zimmermann, R., 517
Zorn, P. W., 485
Zubaid Ahmad, 507
Zuckerman, S., 471
Zwar, B. T., 433
Zweerts, F., 479

INDEX OF COLLEGES, INSTITUTES, ETC.

[*See also* Colleges, etc., of Cambridge (p. 47), London (pp. 101, 102, 152, 154, and 169), Oxford (p. 196), and India (*infra*).]

Aberystwyth, 228
Agricultural (v. also p. 578)—
 Aberystwyth, 228
 Adelaide, 427
 Cambridge, 61
 Cheshunt Res., 721, 725
 Cirencester, 32
 East of Scotland, 275, 721, 725
 East Malling Res., 721
 Harper Adams, 720, 724
 Imperial, 417
 Innes Inst., 721, 725
 Lincoln, N.Z., 454
 Long Ashton, 32
 Lyallpur, 555
 Macdonald, Canada, 354
 Madras, 277, 540
 Mandalay, 561
 Mauritius, 496
 Melbourne, 435
 Midland, 248, 720, 725
 N. Scotland, 266, 721, 725
 Oka, Canada, 377
 Ontario, Guelph, 406
 Oxford, 212
 Poona, 518
 Reading, Dairy Inst., 252
 Roseworthy, Australia, 427
 Rothamsted, 720, 724
 St. Anne de Bellevue, 354
 St. Anne de la Pocatière, 351
 Seale-Hayne, 720, 725
 Shinfield, 252
 Swanley, 721, 725
 Trinidad, 417
 Tropical, 417
 Waite Institute, 427
 Walthamstow Res., 721
 West of Scotland, 285, 721, 725
 West Indian, 417
 Wye, 143
Agric. Botany, Nat. Inst., 720, 724
Alma, St. Thomas, 406
Animal Diseases Res. Assn., 721, 725
Antigonish, Canada, St. Francis Xavier, 391
Archæology, Inst. of, 97
Architecture, 121, 290, 581
Armidate, N.S.W., 65
Armstrong, 75
Art, 406, 581
Auckland, N.Z., 462
Australian Colleges, 419, 434, etc.

Bangor, 232
Barbados, 65
Barnsley, 221
Bede, 69
Belfast Municipal, 301
Belleville, Albert, Canada, 406
Bidston Observatory, 97
Bloemfontein, Grey, 477
Boot, Shoe and Allied Res. Assn., 721
Botanic Gardens, Royal, 720, 724
Brandon, Canada, 365
Brisbane, 438
Bristol, Baptist; Western, 32
British Museum (Nat. Hist.), 720, 723
Building Res. Stn., 720
Burgh, 65

Camborne Sch. of Mining, 184
Campden, 38
Canterbury, N.Z., 460
Cape Town, 471
Cardiff, 235
Ceylon, 564
Charlottetown, 345
Chemical Res. Lab., 720
Chichester, 65
Christchurch, N.Z., Canterbury, 460
Cocoa, etc., Res. Assn., 722
Codrington, Barbados, 65
Colombo, 564
Colston's Girls' Sch., 32
Commerce, Montreal, 377
Cork, 317

Cotton Growing, Emp. Corp., 720, 724
Cotton Industry Res. Assn., 722
Cullercoats Marine Lab., 78
Cutlery Res. Assn., 722

Dairy Inst., 252
Davy-Faraday Res. Labs., 721
Dental, Melbourne, 434
 Toronto, 406
Dick Veterinary, 275, 276
Dove Marine Lab., 78
Dublin, Trinity College, 304
 Training College, 307
 College of Science, 316
 Univ. Coll., 314
Dundee, Univ. Coll., 295
Dunedin, Otago, 456
Dunedin, Selwyn, 65
Durban, 482
Durham, 69

Economic Service, Lond. and Camb., 141
Edge Hill Training, 97
Elec. and Allied Res. Assn., 722, 728
Emmanuel, Saskatoon, 395
Emmanuel, Brisbane, 438
Entomology, Imp. Bureau, 720, 723
Estate Management, 582
Eugenics Lab., 121
Exeter, 243

Fisheries, 93, 326
Food Mfrs. Res. Assn., 722
Forest Products Res. Lab., 720
Forestry, Oxford, 212
Forestry, N.Z., 454
Forestry, Quebec, 351
Fourah Bay, 65
Fruit and Cider Inst., 32
Fuel Research Stn., 720

Galway, 320
Geol. Survey of Gt. Britain, 720, 722
Glasgow Technical, 288
Grahamstown, Rhodes, S. Africa, 483
Grey, 477
Guelph, Ontario, 406

Halifax, Canada, 326, 345, 347
Hall Research Inst., 421
Handsworth, 27
Harris Inst., 97, 184
Hartley, 255
Hatfield, 69
Heriot-Watt, 275
Historical Research Inst., London, 105
Horticultural, *see* Agric.
Howard Observatory, 185
Huddersfield, 86
Huguenot, S. Africa, 480
Hygiene and Trop. Med., 165

Imperial, 130
Imperial Inst., 720, 723
Industrial Inst., 721, 726
Indus. Psychology Nat. Inst., 721, 726
Iron Mfrs. Res. Assn., 722
Iron (Cast) Res. Assn., 722, 728

Jamaica, 65, 348
Johannesburg, 491

Kildare Place, Dublin, 307
King's, Brisbane, 438
Kingston, Canada, Royal Military, 360
Knox, Tor., 406

Lampeter, 206
Launderers' Res. Assn., 722
Leather Mfrs. Res. Assn., 722
Law (v. also p. 595, 597)—
 London, 168
 Osgoode, Toronto, 408
 St. John, N.B., 348, 382
 Winnipeg, 370
 For Indian Law Colls., v. under the several Univs., and 277
Leeds Technical School, 86
Lennoxville, Canada, 336
Lichfield, 27
Linen Ind. Res. Assn., 722
London, Canada, 415
Londonderry, 307
Long Ashton, 32
Low Temperature Station, 61

Macdonald, Canada, 354
Magee, Londonderry, 307
Manaos, 97
Manchester, Technology, 184
Manitoba Law Sch., 370
Marischal, 266
Marine Biol. Assn., 721, 726
Mason, 28
Mauritius, 496
Maynooth, 312
Medical (v. also p. 598)—
 Ceylon, 565

Medical (*contd.*)—
Indian, 516, 517, 522, 523, 533, 540, 555
Liv., 97
London, 154
Newcastle-upon-Tyne, 71
Rainhill, 98
Singapore, 566
Welsh Nat., 237
Melbourne Colls., 434
Merchant Venturers, 38
Metals, Non-Ferrous Res. Assn., 722, 728
Midland Inst., 27
Millers' Res. Assn., 722
Millport Marine Stn., 276
Mirfield, 86
Molteno Inst., 61
Montreal Colls., 377
Moore, 65
Motor and Allied Mfrs. Res. Assn., 721
Motor Cycle and Cycle Car Res. Assn., 722
Mt. Pleasant, 97
Mt. St. Vincent, 345
Music—
Elder, Adelaide, 428
Halifax, Canada, 345
London, 174
Montreal, 377
Mycology, Imp. Bureau, 720, 723

Natal, 481
Neville's Cross, 69
Newcastle-upon-Tyne—
Armstrong, 75
Medicine, 71
Newfoundland, 65
Newman, Melbourne, 434
New Zealand Colls., 456-465
Nottingham, 246

Oil Sci. and Indus. Res. Assn., Scot., 722
Ormond, 434
Otago, 456
Owens, 184
Oyo, 65

Pharmacy, 345, 616
Toronto, 406
Photographic Res. Assn., Brit., 721
Physical Laboratory, Nat., 720
Pietermaritzburg, 481
Plant-Breeding, Scot. Society, 721
Port Erin Marine Lab., 98
Potchefstroom, 482
Preceptors, College of, 623
Pretoria, Transvaal, 484
Prince of Wales, 345

Quebec Colls., 351, 352
Queen's, London, 65
Queen's, Belfast, Cork, and Galway, 312
Queen's, Kingston, Ont., 386
Queen's, Melbourne, 434

Radio Res. Stn., 720
Rainhill Mental Hospital, 98
Rawdon, 86
Reading, 250
Redland High School, 32
Refractories Res. Assn., 722
Rhodes Univ. Coll., 483
Rothamsted, 174, 724
Rowett Inst., 267
Rubber and Tyre Mfrs. Res. Assn., 722
Ruskin, 209
Ryerson, 339

Sackville, Canada, Mt. Allison, 380
St. Andrew's, N.B., 326
St. Andrew's, Oyo, 65
St. Andrew's, Grahamstown, 484
St. Andrew's, Sydney, 445
St. Chad's, 69
St. Chad's, Regina, 395
St. Francis Xavier, 391
St. Hild's, 69
St. John, N.B., Law School, 348, 382
St. John's, Brisbane, 438
St. John's, Durham, 69
St. John's, Newfld., 65
St. John's, Sydney, 444
St. Leo's, Brisbane, 438
St. Mary's, Durham, 69
St. Mary's, N.S., 326
St. Michael's, Toronto, 406
St. Patrick's, 312
St. Paul's, Sydney, 444
Saltley Training College, 27
Sci. Instrument Res. Assn., 721, 726
Scottish Marine Biol. Assn., 721, 725
Scunthorpe, 221
Sierra Leone, 65, 97
Silk Res. Assn., 722, 728
Singapore, 566

South African Colls., 471, 479-487
Southampton, 254
Stellenbosch, 488
Sugar Res. Assn., 722
Swansea, 240
Sydney Colls., 444

Technical and Technological—
Aberdeen, 266
Bangalore, 542, 563
Barnsley, 221
Belfast, 301
Benares, 512
Camborne Sch. of Mining, 184
Dairy Inst., 252
Dublin, 316
Durban, 482
Glasgow, 288
Halifax, Canada, 326
Harris Inst., Preston, 97, 184
Heriot-Watt, 275
Hobart, 448
Huddersfield, 86
Imperial, 130
Kalgoorlie, Mines, 451
Launceston, 448
Leeds, 86
London, 128, 169
Long Ashton, 32
Madras, 540
Manchester, 184, 185
Merchant Venturers, 38
Midland Inst., 27
Montreal, 377
Mt. Lyell, Tasmania, Mines, etc., 448
Natal, 481
New Zealand, 454
Nova Scotia, 326
Perth, 451
Poona, 518
Robert Gordon, 206
Scunthorpe, 221
South Australian, Mines and Industries, 427
South Wales and Monmouthshire School of Mines, 239
Swansea, 240
Zeehan, Mines and Metallurgy, 448
Theological (v. also pp. 65, 152, 184)—
Aberystwyth, 225
Alberta, 333
Bala, 225
Bangor, 225

Theological (*contd.*)—
Bishops', Canada, 336
Brecon, 225
Bristol Baptist, 32
Brit. Columbia, 339
Canadian Anglican, 326
Cardiff, 226
Carmarthen, 226
Cheshunt, 59
Codrington, 65
Durham, 69
Edmonton, Canada, 333
Exeter, Diocesan, 206
Fourah Bay, 65
Halifax, Canada, 345
Handsworth, 27
Huron, 415
Jamaica, 348
King's, Halifax, 347
Knox, Tor., 406
Lampeter, 206
Laval, affiliated to, 351
Lichfield, 27
London, Schools of, 152
London, Ont., 415
Manchester, recognized by, 184
Mirfield, 86
Montreal, 360
New, Edinburgh, 275
Ontario, affiliated to Western, London, 415
Quebec, 351
Queen's, Kingston, 389
Rawdon, 86
Resurrection, of the, 86
Ridley Hall, 59
Robertson, 333
Ryerson, 339
St. Aidan's, Birkenhead, 65, 97
St. Aidan's, Edmonton, 333
St. Boniface, Manit., 370
St. Boniface, Warminster, 32
St. David's, 206
St. Edmund's House, 59
St. Francis Xavier, 391
St. Mary's, 292, 295
St. Patrick's, 312
Salisbury, 32
Saskatchewan, affiliated to, 395
Toronto, 406
Vancouver, 339
Wales, 225
Warminster, 32
Wesley House, 59

Theological (*contd*)—
Westcott House, 59
Western, Bristol, 32
Westminster, 59
,, B.C., 339
Winnipeg, 370
Wycliffe, Tor., 406
Tidal Inst., 97
Toronto, St. Michael's, 406
Trinity, 411
Victoria, 412
Townsville, 421
Transvaal, 484
Trinidad, 417
Trinity, Dublin, 304
Trinity, Toronto, 411
Trinity, Melbourne, 434
Tropical Agriculture, Trinidad, 417
Tropical Medicine—
Calc., 526
Liv., 97
London, 154, 165, 167
Townsville, Queensland, 421

United Coll., St. Andrews, 295

Veterinary, 275, 406, 435, 609
Victoria, B.C., 339
Victoria, Montreal, 354
Victoria, Stellenbosch, 489
Victoria, Toronto, 412
Victoria, Wellington, 464

Waite Institute, 427
Wales, 225-242
Wellington, N.Z., 464
Wellington, S. Africa, 480
Wesley, Sydney, 445
West Indian Agric., 417
Windsor, N.S., King's, 348
Wolfville, Canada, 328
Women's—
Allahabad, 508
Bedford, 147
Brisbane, 438
Calcutta, 523
Cambridge, 54, 60
Cheltenham, 65
Darlington, 65
Delhi, 555
Durham, 69
Edge Hill, Training, 97
Girton, 54
Glasgow, 280
Holloway, 150
Women's (*contd.*)—
Huguenot, S. Africa, 480
Lady Margaret Hall, 202
Lahore, 556
London, 124, 147-151
School of Med., 166
Lucknow, 535
Madras, 539
Montreal, 378
Victoria, 354
Moulton, Toronto, 365
Mt. Pleasant, Training, 97
Mysore, 542
Newnham, 54
Oxford, 202
Queen's, London, 65
Queen Margaret, Glasgow, 280
Ripon, 65
St. Frideswide's, 203
St. Hild's, 69
St. Hilda's, Oxford, 203
St. Hilda's, Toronto, 406
St. Hugh's, 202
St. Mary's, 69
Somerville, 202
Sydney, 445
Westfield, 151
Whitby, Ont., 406
Woodstock, 365
Woollen and Worsted Industries, Brit. Res. Assn., 721
Wycliffe, Tor., 406

York, Diocesan Training, 86

Indian Colleges at

Agra, 509
Ahmedabad, 516
Ajmer, 510
Aligarh, 506
Allahabad, 508
Alwaye, 538
Amraoti, 546
Amritsar, 555
Anantapur, 538

Bangalore, 542, 563
Bankipur, 557, 558
Bankura, 522
Bareilly, 510
Barisal, 522
Baroda, 516
Belgachia, 522

Benares, 513
Berhampur, 523
Bhagalpur, 558
Bhavnagar, 516
Bhowanipur, 523
Bombay, 516-517

Calcutta, 522-525
Cawnpore, 510
Chidambaram, 538
Chittagong, 524
Coimbatore, 540
Comilla, 524
Cooch-Behar, 524
Cuttack, 557

Dacca, 528
Daulatpur, 524
Delhi, 531, 555
Dharwar, 517

Ernakulam, 538

Faridpur, 525
Feni, 525

Gauhati, 525
Gorakhpur, 510
Gwalior, 510

Hazaribagh, 558
Hetampur, 525
Hughli, 525
Hyderabad, 538, 550

Indore, 510

Jubbulpore, 546
Jaipur, 510
Jammu, 555
Jodhpur, 510
Junagadh, 517

Karachi, 517
Kolhapur, 518
Krishnagar, 525
Kumbakonam, 538

Lahore, 554, 555, 556
Lucknow, 533
Lyallpur, 555

Madras, 277, 538, 539, 540
Madura, 539
Mandalay, 561
Mangalore, 539
Mannargudi, 539
Masulipatam, 539
Meerut, 510
Midnapore, 525
Monghyr, 558
Muzaffarpur, 558
Mymensingh, 525
Mysore, 542

Nagpur, 546

Palamcottah, 539
Patiala, 556
Patna, 558
Peshawar, 556
Poona, 518

Rajahmundry, 539
Rajshahi, 525
Rangoon, 559
Rangpur, 525
Rawalpindi, 556

Sangli, 518
Serampore, 525
Shillong, 525
Sialkot, 556
Srinagar, 556
Surat, 518
Sylhet, 525

Tinnevelly, 539
Trichinopoly, 539
Trivandrum, 277, 539

Vizianagram, 539

GENERAL INDEX

Abbreviations of titles of degrees, etc., 20
Accountants, Chartered, 574
 Costs and Works, 576
 Incorpd. Society, 575
 London Assocn., 576
Actuaries, Inst., 577
Admission of Students from Abroad, 6, 636
Adult education, 10
Aeronautical Society, Royal, 590
Agric. Botany, Nat. Inst, 724
 National Examn. Board, 578
 Research Institutions, 720
Air Force Commissions, 573
Albert Kahn Fellowships, 654
America, Brit. Information Library, 673
 Degrees, 674
 Inst. Internat. Educ., 673
 Univs., Assocn. of, 677
 Univ. Scholarships, 659
Anderson's Coll., 290
Animal Sanatory Inst., Brown, 105
Apothecaries' Society, London, 608
Archæology, Inst., Liverpool, 97
Architects, R. Inst. of British, 581
Architecture, Bartlett Sch., 121
Army, Commissions, 573
Auctioneers' and Estate Agents' Inst., 582
Australian Univs., Constitution, 419

Bankers, Inst., 584
Barristers, Educn. and Examn., 595
Belgium, Fond. Universitaire, 668
Biometry, Drapers' Lab., 121
British Association, 652
 School at Athens, 653
 at Rome, 653
Brown Animal Sanatory Instn., 105

Canada, Nat. Council Educn., 327
Canadian Univs., Constitution, 322
Cancer Research Funds, 654
Carnegie Foundation, Canada, 326
 Corporation, N.Y., 325
 Trust for Scotland, 261
Central Bureau for Women, 658
Ceylon Medical Coll., 565
Chartered Accountants, Inst, 574
Chemical Society, 586
Chemistry, Inst., 585
City and Guilds Coll., 2
City of London Vacation Course, 658
Civil Services, training for, 58, 209
Colston Research Soc., 39
Commonwealth Fund Fellowships, 659
Conference, South African Univs., 469
Conferences, Australian Univs., 423
 Canadian Univs., 325
 of Univs., International, 11
 of Univs. of U.K., 8, 10, 11
Congress, Empire, 11
Crawshay Prize, 653

Dairying, Nat. Inst. for Research, 252
Daughters of Empire Scholarships, 657
Degrees, abbreviations of titles, 13
 Summary for U.K., 13
Dental qualifications, 601

École Commerciale, Quebec, 377
 Polytechnique, Quebec, 377
Empire Exhibn. Scholarships, 657
Engineering, "sandwich" scheme, 38
Engineers, Inst. of—
 Automobile, 590
 Chemical, 591
 Civil, 587
 Electr., 588
 Gas, 591
 Marine, 591
 Mech., 589
 Mining, 613
 Munic., 593
 and Shipbuilders, 593
 Structural, 594
English Univs., Constitution, 1
Estate Management Coll., 583
Eugenics, Galton lab., 121
Examns., list of qualifying, 626
Expenses, students', 214

Extension Lectures, 10
Extra-mural activities, 10

Fees, generally, 7
Fellowships, Beit Memorial, 649
Fisheries, School of, 92, 264, 326
 Research, 664
Fitzwilliam Museum, 61
Foreign Universities, 670
Forestry Inst., Impl., 212
Foulerton Fund, 651
Franco-Scottish Society, 277
Free passages, 658
French Univ. Scholarships, 661
Fruit and Cider Inst., 32

Gilchrist Trust, 650
Govt. Grants for Research, 662
 to Univs. and Colls., 8
Grocers' Company Scholarships, 655
Guelph, Agricultural Coll., 406
 Veterinary Coll., 406

Harris Inst., Preston, 97, 184
Historical Research Inst., 105
Horticulture, Nat. Diploma, 579
Hygiene Inst., 611

Inauguration, 57
Inception, 57
Incorporation, 56, 205
Indian Inst., Oxford, 211
 Students in Britain, 504
 Univs., Constitution, 501
 Univs., History, 500
Industrial Certificate, Birm., 29
Insurance Inst., Chartered, 574
Interchange of Teachers in the Empire, 623
 of Teachers and Students, 12
International Educn., Inst. of, 673
 Federations, 671
 Fellowships for Women, 662
 Institute, 679
 Relations, 140, 230, 681
 Research Foundations, 668
Iron and Steel Inst., 613

Johnston Scholarship, 656

Kalgoorlie, School of Mines, 451
Kitchener Scholarships, 657

Lancashire Adult Scholarships, 647
Land Agents' Society, 583
League of Empire, 623
 of Nations, 670
Library, Welsh National, 231
Libraries, 8
 Special and Infn. Bx., 8
Lister Inst., 166

Macdonald Coll., 361
Mackinnon Studentship, 651
Marine Biol. Assocn., 653
 Laboratory, Dove, 78
 Plymouth, 653
 Port Erin, 98
Marischal College, Aberdeen, 266
Matriculation, 3
 Examns., 627
 Joint Board, 627
Medical Council, General, 598
 Qualifications, 598
 Reciprocal recogn., 603
 Registration, 600
 Research Council, 665
 Studies, Post-graduate, 603
Metals, Inst., 614
Mining, Camborne School, 184
 Engineers, Inst., 613
 and Metallurgy, Inst., 612
 Empire Council, 612
Ministry of Agric. Research, 663
Molteno Inst., 61
Moseley Studentship, 651
Music, Welsh Council, 227

Naval Architects, Instn., 592
 Scholarships, 655
Nobel Prizes, 668

Overseas Educ. League, 624
Owens College, 184

Parliament, Univ. Representatives, 9, 41, 101, 189, 257, 298, 304, 312
Parliamentary Grant, 8
Passages to Australia and N.Z., 658
Patent Agents, Inst., 615
Perth Tech. School, 451
Petroleum Tech. Inst., 615
Pharmaceutical Society, 616
Physicians—
 R. Coll. of Edin., 605
 R. Coll. of Ireland, 607
 R. Coll. of London, 603
 R. Fac. of Glas., 605
Physics, Inst., 617

Poultry, Nat. Examn. Board, 580
Preceptors, College of, 623
Professional Openings overseas, 625
Public Administration, 578
Public Health, R. Inst., 610

Qualifying Examns., 626
Queen's Colleges, Ireland, 301
University, Ireland, 301

Ramsay Fellowships, 653
Recognition of previous study, 15
Research in the Colonies, 664
Colston Society, 39
in the Dominions, 665
in Fisheries, 663
in India, 667
Inst. of Historical, 105
Medical Council, 665
Ministry of Agric., 663
Rhodes Scholarships, 210
Rockefeller fellowships, 660
Rowett Inst., 267
Royal Coll. of Science, 2, 133
Royal Military Coll., Kingston, 360
Royal School of Mines, 2, 133
Royal Society, Medals, 652
Research Funds, 651

St. Leonard's Coll., 295
St. Mary's Coll., 295
St. Salvator's Coll., 295
Salters' Inst. of Industrial Chem., 656
Sanitary Institute, Royal, 609
Scholarships, 1851 Exhibition, 647
Inter-university, 642
Research, 643
School Examns., 4, 62, 112, 212
Examns., Secondary, Council, 4
Scientific Workers, Nat. Union, 625
Scotland, Royal Observatory, 276
Scottish Univs., Admission, 258
Constitution, 257
Secretaries Inst., 618
Solicitors, Educn. and Examn., 596
Sorby Fund, 651
South African Univs., Constitution, 468
History, 466
Standing Committee of the Bureau, 11
Stapley Trust, 651
Students' expenses, Australia, 422
Oxford, 214
Students, number in U.K., 6
from overseas, admission, 6
statistics, 634
Scottish Conference, 262
Unions, International, 670
National, 6, 7
Surgeons—
R. Coll. of Edin., 605
R. Coll. of Ireland, 607
R. Coll. of England, 603
R. Fac. of Glas., 605
Surveyors' Institution, 619

Teachers, Interchange of, 12, 623
Teachers' Regn. Council, 620
Terms, dates of, 7
Tidal Inst., Liverpool, 97
Titles, abbreviations, 21
Training of Teachers, 620
Cambridge, 59
Oxford, 209
Trinidad, Coll. of Trop. Agriculture, 417
Tropical Med., Liv., 97
London, 165
University Extension, 10

Veterinary Surgeons, R. Coll., 609
Vice-Chancellors, Standing Committee, 11

War Relief, Univ., 671
Watson Chair of Amer. Hist., 659
Whitworth Scholarships, 646
Women, admission to Univs., 3

Yarrow Professorships, 651

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